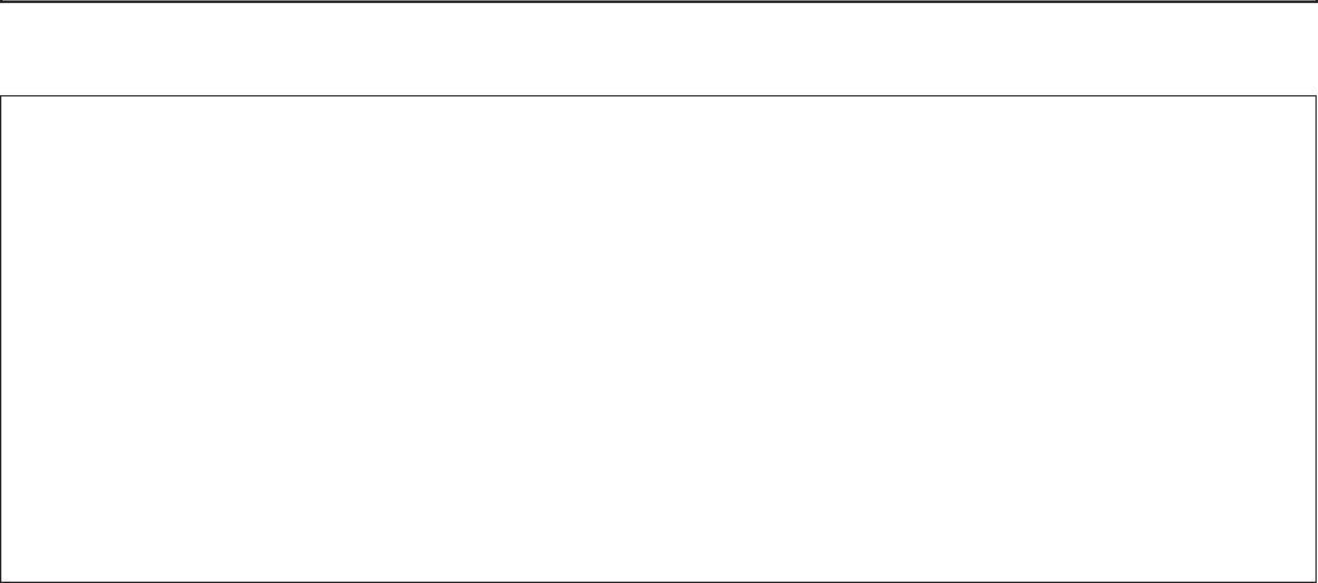
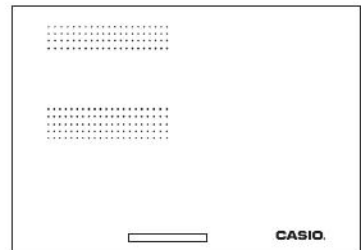
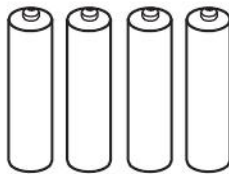
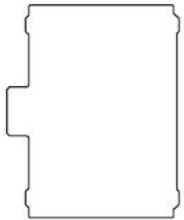
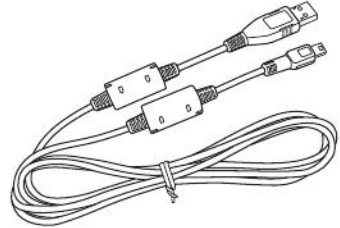
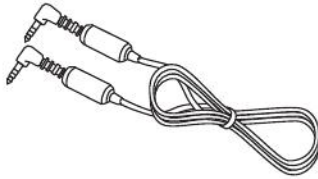
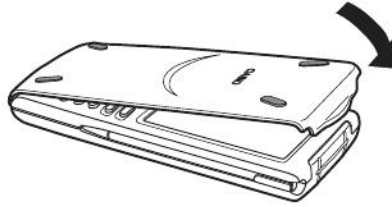
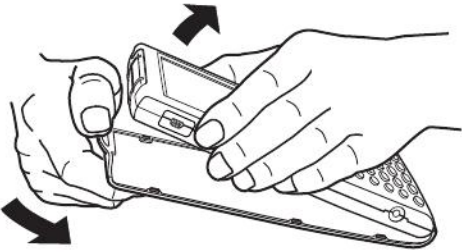
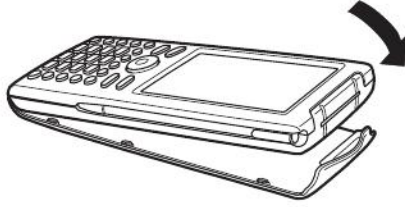
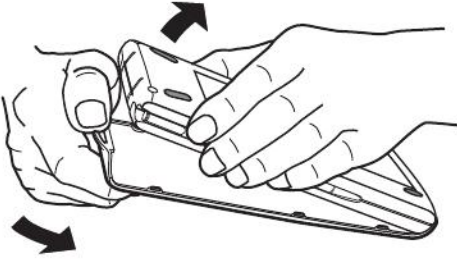
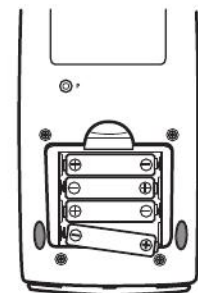
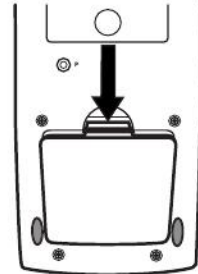
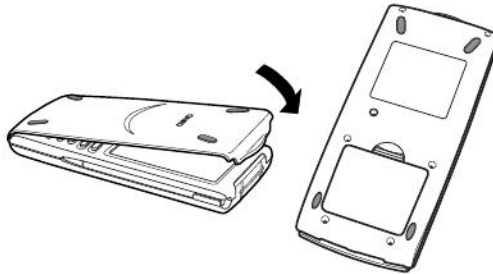
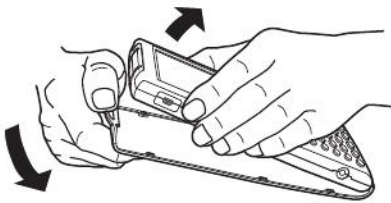


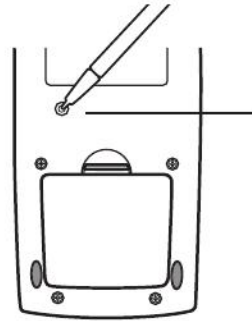
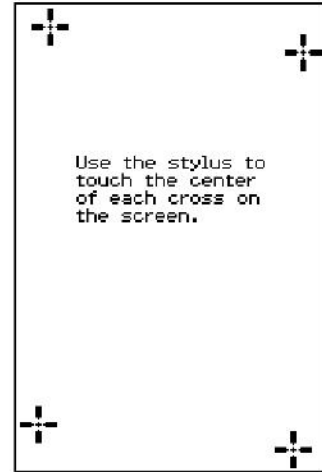
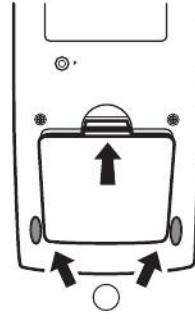
CASIO®

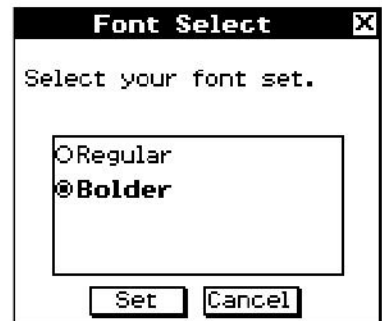
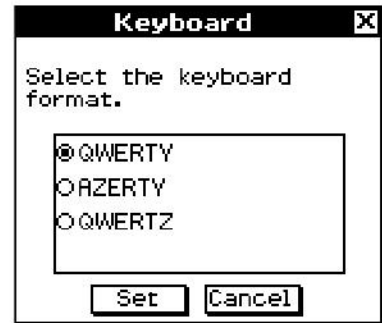
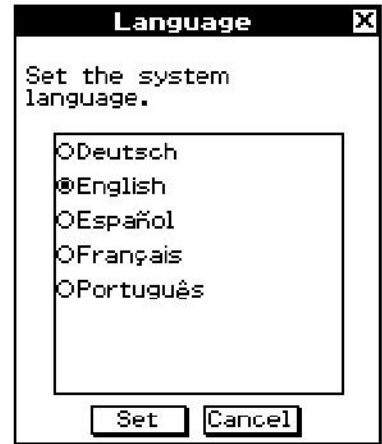














Power Properties [X]

Power Save Mode

1 day [v]

After the selected time, this unit will enter the power save mode.

Auto Power Off

6 min [v]

After the selected time, power is turned off automatically.

[Set] [Cancel]























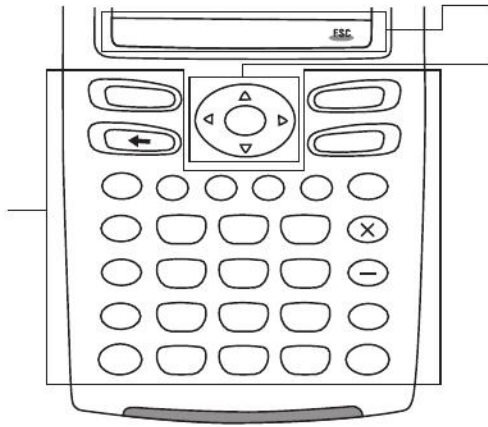












ESC



▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3

$y_1 = \frac{1}{3} \cdot x^2 - 2$ [—]

$y_2 =$

$y_3 =$

$y_4 =$

$y_5 =$

$y_6 =$

$y_7 =$

[mth] [abc] [cat] [2D] [X] [↕] [↔]
 [π] [θ] [↓] [∅] [(<)] [)] [∞] [→] [↖] [↗] [↘] [↙]
 [log] [ln] [√] [7] [8] [9] [^] [=]
 [x^2] [e^x] [x^{-1}] [4] [5] [6] [×] [+]
 [C] [D] [|x|] [1] [2] [3] [+/-]
 [L] [I] [(-)] [0] [.] [E] [ans]
 TRIG | CALC | OPTN | VAR | EXE
 Rad Cplx

▼ Edit Type GMem ◆

- Settings
- Keyboard
- Graph Editor
- Graph Table
- List Editor
- Main
- Close

→

▼ Edit Type GMem ◆

- Settings
- Keyboard
- Graph Editor
- Graph Table
- List Editor
- Main
- Close

Analysis ◆

- Trace
- Sketch
- G-Solve
- Modify

→

▼ Edit Zoom Analysis ◆

- Cls
- Plot
- Line
- Text
- Tangent
- Normal
- Inverse
- Circle
- Vertical
- Horizontal

→

▼ Edit Zoom Analysis ◆

- Trace
- Sketch
- G-Solve
- Modify

→

▼ Edit Zoom Analysis ◆

- Cls
- Plot
- Line
- Text
- Tangent
- Normal
- Inverse
- Circle
- Vertical
- Horizontal



1-4-4 Built-In Applications

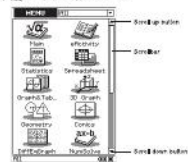
To perform this type of operation:	Select this icon:	See Chapter:
• Exchange data with another ClassPad, a computer, or another device		57
• Check the battery • Adjust contrast • Configure other system settings		16

Starting a Built-In Application

Perform the steps below to start a built-in application.

• ClassPad Operation

[1] On the icon panel, tap to display the application menu.



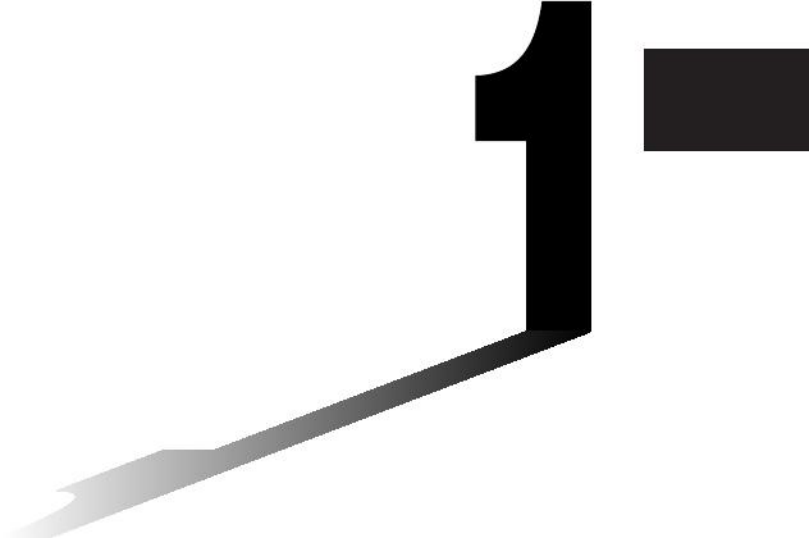
[2] If you cannot see the icon of the application you want on the menu, tap the scroll buttons or drag the scroll bar to bring other icons into view.
 [3] Tap an icon to start its application.

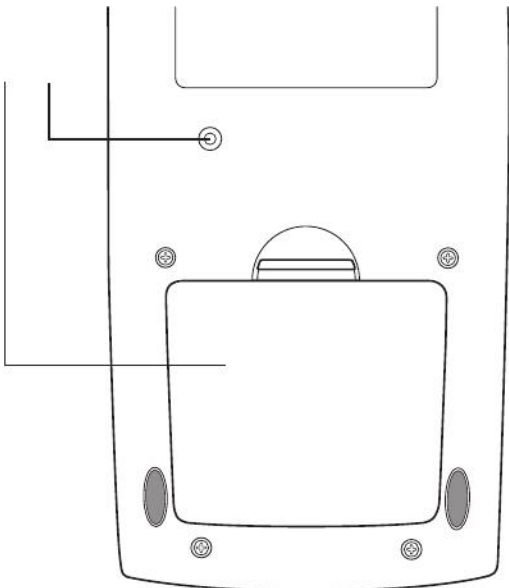
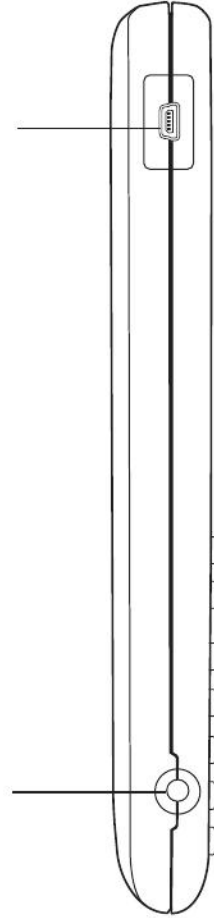
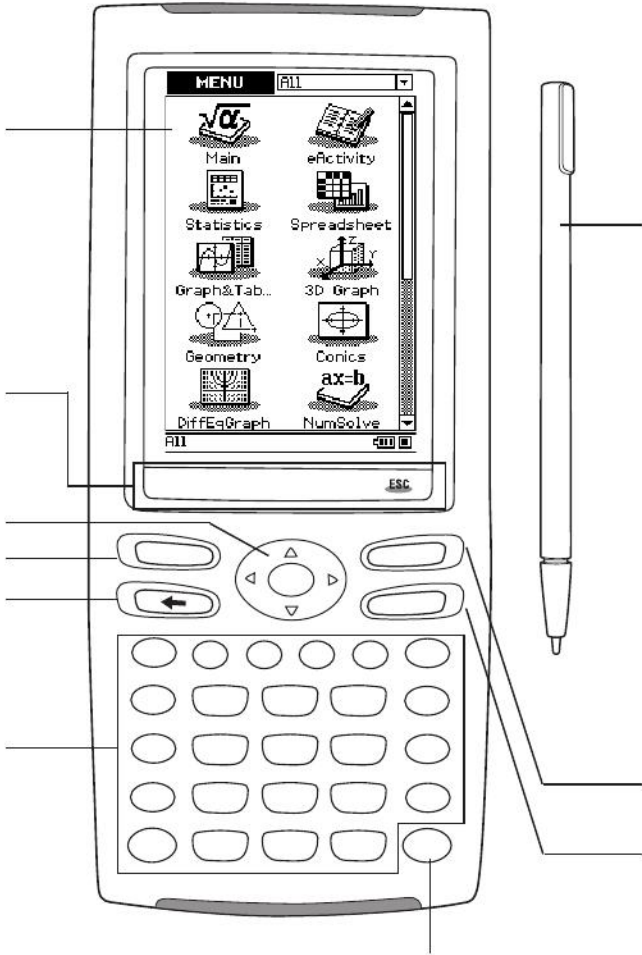
Tip
 • You can also start the Menu application by tapping on the icon panel. See "1-4-3 Using the icon panel" for details.

Application Menu Operations

This *1-4-4* describes the various types of operations you can perform while the application menu is on the display.

- Starting an application
See "Starting a Built-In Application" above.

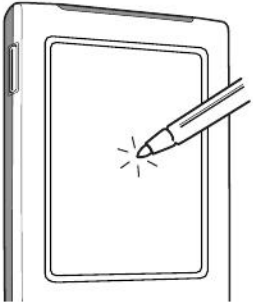
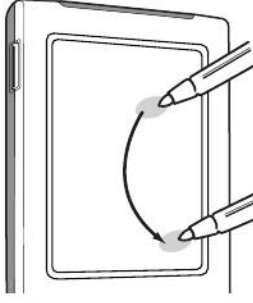








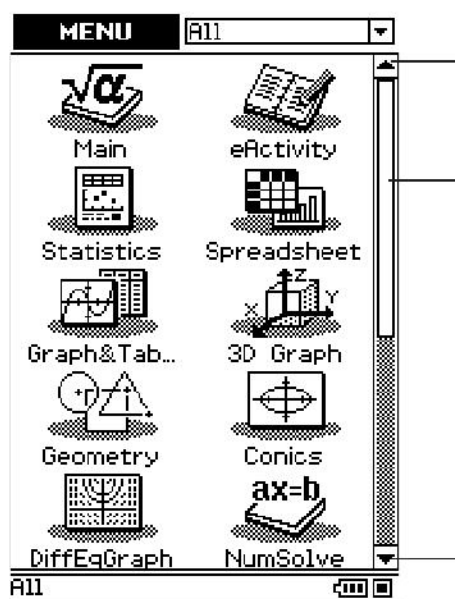


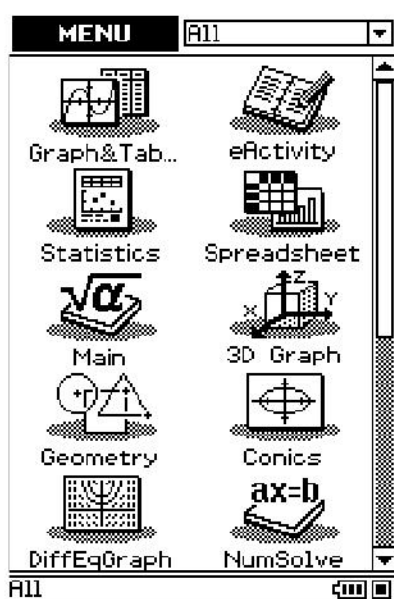
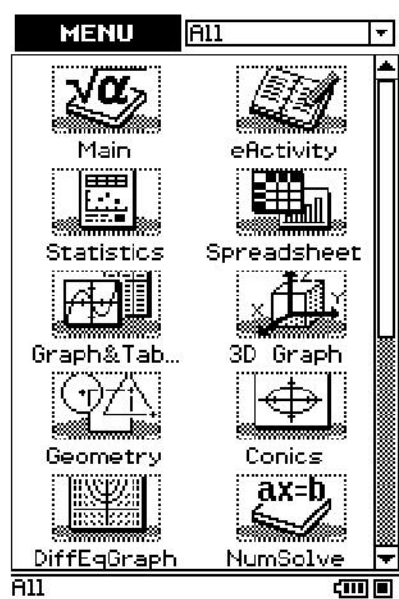














MENU

MENU

MENU



▼ Edit Action Interactive

0.5 | \int | $\frac{d}{dx}$ | a=... | Y1=...
1.2 | $\frac{d}{dx}$ | b=... | Y2=...

0

mth abc cat 2D \times \uparrow \downarrow

π θ i \emptyset () , \rightarrow \leftarrow $\sqrt{}$ $\frac{\square}{\square}$ $\frac{\square}{\square}$ $\frac{\square}{\square}$ $\frac{\square}{\square}$

log ln $\sqrt{}$ 7 8 9 \wedge =
 x^2 e^x x^{-1} 4 5 6 \times \div
< > |x| 1 2 3 + -
[] (-) 0 . E ans

TRIG CALC OPTN VAR EXE

Alg Standard Cplx Rad $\left(\frac{\square}{\square}\right)$

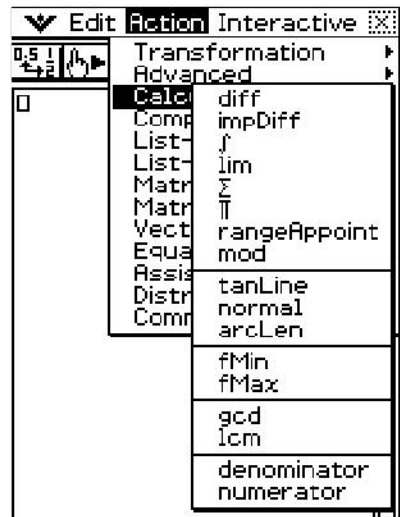
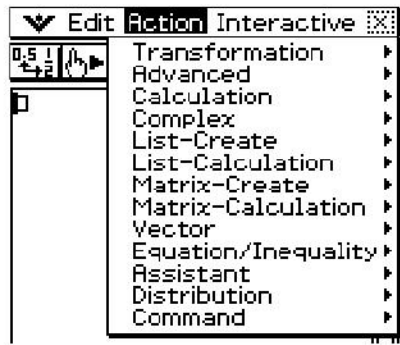
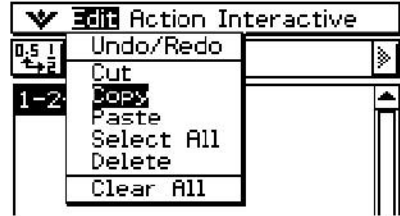
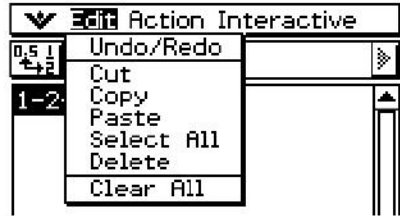
▼ Edit Zoom Analysis

f(x) $\left(\frac{\square}{\square}\right)$ $\left(\frac{\square}{\square}\right)$ $\left(\frac{\square}{\square}\right)$ $\left(\frac{\square}{\square}\right)$ $\left(\frac{\square}{\square}\right)$ $\left(\frac{\square}{\square}\right)$ $\left(\frac{\square}{\square}\right)$ $\left(\frac{\square}{\square}\right)$

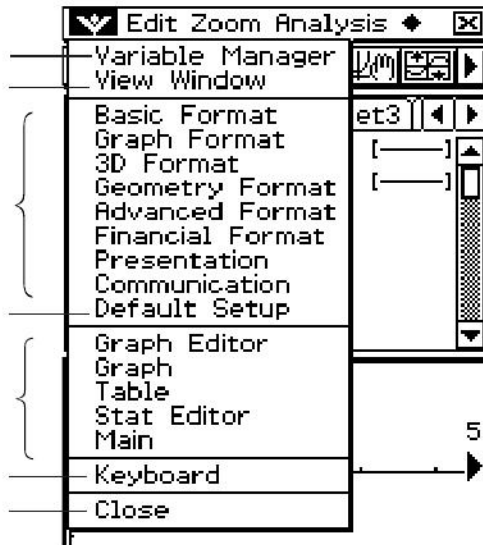
Conics Equation:
$$\frac{(x-1)^2}{3^2} + \frac{(y+1)^2}{2^2} = 1$$

Rad Cplx $\left(\frac{\square}{\square}\right)$





lim()





▼ Edit Zoom Analysis

Variable Manager View Window

et3

Basic Format
Graph Format
3D Format
Geometry Format
Advanced Format
Financial Format
Presentation
Communication
Default Setup

Graph Editor
Graph
Table
Stat Editor
Main
Keyboard
Close

Sheet1 | Sheet2 | Sheet3

$y1 = \sin(x) + \frac{1}{9} \cdot x^2$

$y2 = \sin(x) + \frac{2}{3} \cdot x - 3$

$y3 =$

$y4 =$

$y5 =$

$y6 =$

Rad Real

▼ Edit Zoom Analysis

Variable Manager View Window

et3

Basic Format
Graph Format
3D Format
Geometry Format
Advanced Format
Financial Format
Presentation
Communication
Default Setup

Graph Editor
Graph
Table
Stat Editor
Main
Keyboard
Close

Sheet1 | Sheet2 | Sheet3

$y1 = \sin(x) + \frac{1}{9} \cdot x^2$

$y2 = \sin(x) + \frac{2}{3} \cdot x - 3$

$y3 =$

$y4 =$

$y5 =$

$y6 =$

Rad Real

▼ Edit Type GMem

Variable Manager View Window

et3

Basic Format
Graph Format
3D Format
Geometry Format
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Communication
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$y6 =$

Rad Real

▼ Edit Type GMem

Variable Manager View Window

et3

Basic Format
Graph Format
3D Format
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Advanced Format
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Communication
Default Setup

Graph Editor
Graph
Table
Stat Editor
Main
Keyboard
Close

Sheet1 | Sheet2 | Sheet3

$y1 = \sin(x) + \frac{1}{9} \cdot x^2$

$y2 = \sin(x) + \frac{2}{3} \cdot x - 3$

$y3 =$

$y4 =$

$y5 =$

$y6 =$

Rad Real

▼ Edit Calc SetGraph

Variable Manager View Window

et3

Basic Format
Graph Format
3D Format
Geometry Format
Advanced Format
Financial Format
Presentation
Communication
Default Setup

Graph Editor
Graph
Table
Stat Editor
Main
Keyboard
Close

Sheet1 | Sheet2 | Sheet3

$y1 = \sin(x) + \frac{1}{9} \cdot x^2$

$y2 = \sin(x) + \frac{2}{3} \cdot x - 3$

$y3 =$

$y4 =$

$y5 =$

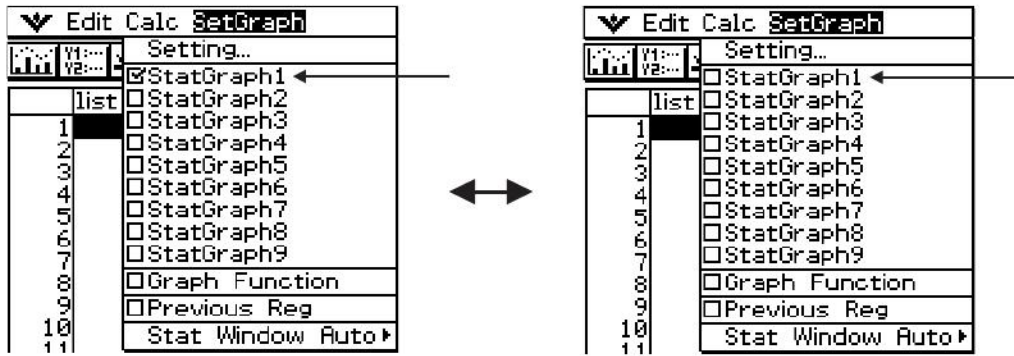
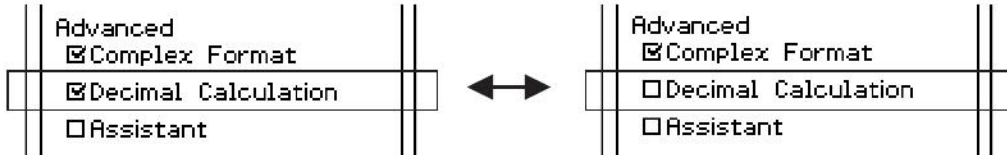
$y6 =$

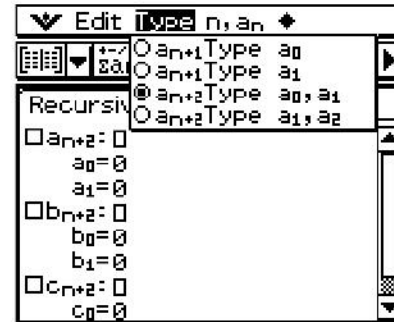
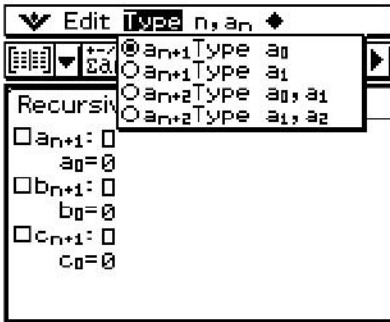
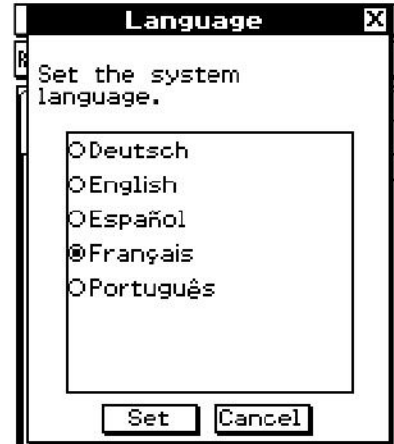
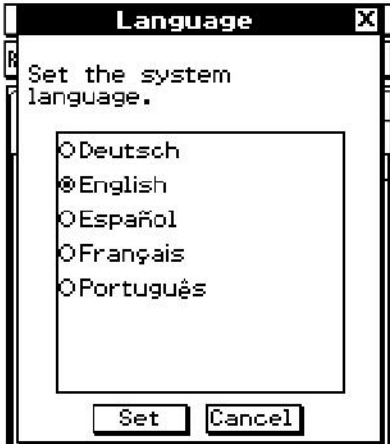
	list1	list2	list3
1	1	1	20
2	2	2	50
3	3	3	80
4	4	4	110
5	5	5	140

Calc

1)=1

Rad Auto Decimal







▼ Edit Type GMem ◆

y= ▼ ▶

Sheet1 | Sheet2 | Sheet3 | ◀ ▶

□y1: □

y= ▼ ▶

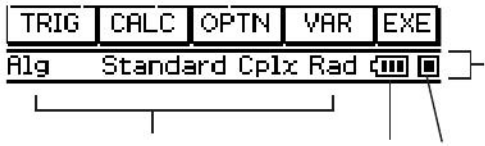
y=	x+=
r=	x=
y>	x>
y<	x<
y≥	x≥
y≤	x≤

▶

↕

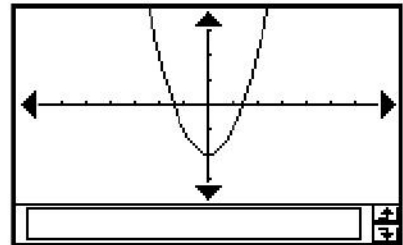
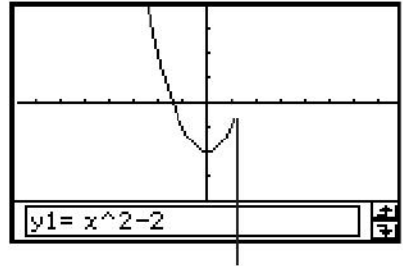
▶







9





▼ Edit Calc SetGraph

	list1	list2	list3
1	1	130	17
2	2	160	45
3	3	155	32
4	4	154	18
5	5	160	14

Cal▶

[1] = 1

Rad Auto Standard



▼ Edit Calc SetGraph

	list1	list2	list3
1	1	130	17
2	2	160	45
3	3	155	32
4	4	154	18
5	5	160	14

Cal▶

[1] = 1

mth	abc	cat	2D	✕	↑	↩				
π	θ	∫	∞	<	>	,	⇒	↔	↵	↶
log	ln	√		7	8	9	^	=		
x ²	e ^x	x ⁻¹		4	5	6	×	÷		
(	)	|x|		1	2	3	+	-	
[	]	(-)		0	.	e	ans		
TRIG	CALC	OPTN	VAR	EXE						

Rad Auto Standard



mth	abc	cat	2D			
π	θ	i	ω	()	,	\Rightarrow
log	ln	$\sqrt{\quad}$		7	8	9
x^2	e^x	x^{-1}		4	5	6
(	)	|x|		1	2	3
[	]	(-)		0	.	E
TRIG	CALC	OPTN	VAR	ans		
EXE						

mth	abc	cat	2D			
1	2	3	4	5	6	7
8	9	0	-			
q	w	e	r	t	y	u
i	o	p	\			
a	s	d	f	g	h	j
k	l	;	'			
z	x	c	v	b	n	m
,	.	/				
$\alpha\beta\gamma$	MATH	SPACE	SMBL	EXE		

mth	abc	cat	2D			
abs(
absExpand(
andConnect(
angle(
approx(
arcLen(
arg(
Form						
Func						
INPUT						
EXE						
A B C D E F G H I J K						

mth	abc	cat	2D			
π	θ	i	ω	()	,	\Rightarrow
$\frac{\square}{\square}$	$\sqrt{\square}$	$\sqrt[\square]{\square}$		7	8	9
x^{\square}	e^{\square}	\log_{\square}	\square	4	5	6
\square	\square	\square	\square	1	2	3
\square	\square	\square	\square	0	.	E
CALC	ADV	OPTN	VAR	ans		
EXE						



mth	abc	cat	2D	\times	\uparrow	∇
π	θ	i	ω	()	,	\Rightarrow
log	ln	$\sqrt{\quad}$		7	8	9
x^2	e^x	x^{-1}		4	5	6
\langle	\rangle	$ x|$		1	2	3
[	]	(-)		0	.	ϵ
TRIG	CALC	OPTN	VAR	EXE		



mth	abc	cat	2D	\times	\uparrow	∇
π	θ	i	ω	()	,	\Rightarrow
$\frac{\square}{\square}$	$\sqrt{\square}$	$\sqrt[\square]{\square}$		7	8	9
x^{\square}	e^{\square}	\log_{\square}	$ \square $	4	5	6
\langle	\rangle	$\{\square\}$	$\{\square;\square\}$	1	2	3
\langle	\rangle	$\{\square\}$	$\{\square;\square\}$	0	.	ϵ
CALC	ADV	OPTN	VAR	EXE		

-2+3-4+10



$$2(5+4)/(23 \times 5)$$

$$\frac{18}{115}$$

$$369 \times 3$$

$$369 \times 4$$

$$369 \times 2$$



$$369 \times 2$$

$$369 \times 2$$

$$\cos(60)$$

$$\cos(60)$$

$$60$$

$$\sin(60)$$



2.36^2

2.36^2

sin(2.36^2)

1234567

1234567

10567



$$y = 3x^2 + 5x - 8$$

$$y = 3x^2 + 5x - 8$$

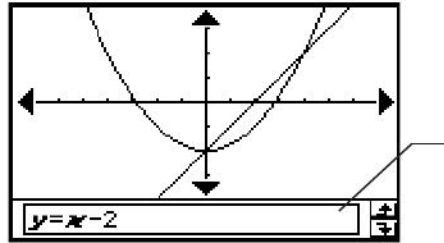
$$y = 3x^2 + 5x - 8$$



$$y = 3x^2 + 8$$

$$y = 3x^2 - 8$$

$$y + 5x = 3x^2 - 8$$



mth	abc	cat	2D			
π	θ	i	∞	\langle	\rangle	\rightarrow
\log	\ln	$\sqrt{\quad}$	$\frac{\square}{\square}$	7	8	9
x^2	e^x	x^{-1}	$\frac{\square}{\square}$	4	5	6
\langle	\rangle	$ x|$	$\frac{\square}{\square}$	1	2	3
[	]	$\langle - \rangle$	$\frac{\square}{\square}$	0	.	ϵ
TRIG	CALC	OPTN	VAR	EXE		



math	abc	cat	2D	\times	\uparrow	\downarrow
π	θ	i	ω	()	,	\Rightarrow
hyp	\circ	r	7	8	9	\wedge =
sin	\sin^{-1}	4	5	6	\times +	
cos	\cos^{-1}	1	2	3	+ -	
tan	\tan^{-1}	0	.	ϵ	ans	
\leftarrow	CALC	OPTN	VAR	EXE		

math	abc	cat	2D	\times	\uparrow	\downarrow
π	θ	i	ω	()	,	\Rightarrow
hyp	\circ	r	7	8	9	\wedge =
sinh	\sinh^{-1}	4	5	6	\times +	
cosh	\cosh^{-1}	1	2	3	+ -	
tanh	\tanh^{-1}	0	.	ϵ	ans	
\leftarrow	CALC	OPTN	VAR	EXE		

math	abc	cat	2D	\times	\uparrow	\downarrow
π	θ	i	ω	()	,	\Rightarrow
Σ	Π	lim	7	8	9	\wedge =
diff	\int	int	4	5	6	\times +
!	nPr	nCr	1	2	3	+ -
solv	dSlv	'	0	.	ϵ	ans
TRIG	\leftarrow	OPTN	VAR	EXE		

solv

dSlv

math	abc	cat	2D	\times	\uparrow	\downarrow
π	θ	i	ω	()	,	\Rightarrow
\neq	<	>	\leq	\geq	*	7 8 9 \wedge =
"	#	|	\angle	n	-	4 5 6 \times +
a_n	b_n	c_n	1	2	3	+ -
+1	+2	rSlv	0	.	ϵ	ans
TRIG	CALC	\leftarrow	VAR	EXE		

rSlv



mth	abc	cat	2D	\times	\uparrow	\downarrow
a	b	c	d	e	() , \Rightarrow \leftarrow	
f	g	h	i	j	7 8 9 \wedge =	
k	l	m	n	o	4 5 6 \times \div	
p	q	r	s	t	1 2 3 $+$ $-$	
$\frac{\square}{\square}$	u	v	w	x	y z 0 . E ans	
TRIG	CALC	OPTN	\leftarrow	EXE		

mth	abc	cat	2D	\times	\uparrow	\downarrow
A	B	C	D	E	() , \Rightarrow \leftarrow	
F	G	H	I	J	7 8 9 \wedge =	
K	L	M	N	O	4 5 6 \times \div	
P	Q	R	S	T	1 2 3 $+$ $-$	
$\frac{\square}{\square}$	U	V	W	X	Y Z 0 . E ans	
TRIG	CALC	OPTN	\leftarrow	EXE		

mth	abc	cat	2D	\times	\uparrow	\downarrow					
1	2	3	4	5	6	7	8	9	0	-	\leftarrow
q	w	e	r	t	y	u	i	o	p	\	
$\frac{\square}{\square}$	a	s	d	f	g	h	j	k	l	;	'
\uparrow	z	x	c	v	b	n	m	,	.	/	
$\alpha\beta\gamma$	MATH	SPACE	SMBL	EXE							

mth	abc	cat	2D	\times	\uparrow	\downarrow					
!	@	#	\$	%	&	*	()	_	\leftarrow	
Q	W	E	R	T	Y	U	I	O	P	|	
$\frac{\square}{\square}$	A	S	D	F	G	H	J	K	L	:	"
\uparrow	Z	X	C	V	B	N	M	<	>	?	
$\alpha\beta\gamma$	MATH	SPACE	SMBL	EXE							



mth	abc	cat	2D	X	↑	↵
α	β	γ	δ	ε	ζ	η
θ	ι	κ	λ	μ	ν	ξ
ο	π	ρ	σ	τ	υ	φ
χ	ψ	ω	∞	∫	∑	∏
∫	∑	∏	∫	∑	∏	∫
∑	∏	∫	∑	∏	∫	∑
∏	∫	∑	∏	∫	∑	∏
αβγ	←	MATH	SPACE	SMBL	EXE	

mth	abc	cat	2D	X	↑	↵
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
αβγ	←	MATH	SPACE	SMBL	EXE	

mth	abc	cat	2D	X	↑	↵
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
ā	ā	ā	ā	ā	ā	ā
αβγ	←	MATH	SPACE	SMBL	EXE	

mth	abc	cat	2D	X	↑	↵
+	-	×	/	^	÷	=
≠	<	>	≤	≥	±	∓
±	∓	≠	≠	≠	≠	≠
√	∑	∏	∫	∑	∏	∫
∫	∑	∏	∫	∑	∏	∫
∑	∏	∫	∑	∏	∫	∑
∏	∫	∑	∏	∫	∑	∏
αβγ	←	SPACE	SMBL	EXE		

mth	abc	cat	2D	X	↑	↵
0	1	2	3	4	5	6
7	8	9	+	-	×	/
√	∑	∏	∫	∑	∏	∫
∫	∑	∏	∫	∑	∏	∫
∑	∏	∫	∑	∏	∫	∑
∏	∫	∑	∏	∫	∑	∏
αβγ	←	SPACE	SMBL	EXE		

mth	abc	cat	2D	X	↑	↵
1	≠	≠	≠	≠	≠	≠
≠	≠	≠	≠	≠	≠	≠
≠	≠	≠	≠	≠	≠	≠
≠	≠	≠	≠	≠	≠	≠
≠	≠	≠	≠	≠	≠	≠
≠	≠	≠	≠	≠	≠	≠
αβγ	←	SPACE	SMBL	EXE		

mth	abc	cat	2D	X	↑	↵
!	"	#	\$	%	&	'
()	*	,	.	:	;
?	@	[\]	_	^
<		>	~	⇒	∴	∵
∴	∵	∴	∵	∴	∵	∴
∴	∵	∴	∵	∴	∵	∴
∴	∵	∴	∵	∴	∵	∴
αβγ	MATH	SPACE	←	EXE		

mth	abc	cat	2D	X	↑	↵
×	||	|	[	]	Δ	∇
∇	∇	∇	∇	∇	∇	∇
∇	∇	∇	∇	∇	∇	∇
∇	∇	∇	∇	∇	∇	∇
∇	∇	∇	∇	∇	∇	∇
∇	∇	∇	∇	∇	∇	∇
αβγ	MATH	SPACE	←	EXE		



$$\boxed{abc \qquad a \cdot b \cdot c}$$

$$\boxed{2xy \qquad 2 \cdot x \cdot y}$$



abc abc

$a \times b + c$ $a \cdot b + c$



mth abc cat 2D [X] [↑] [↓]

abs(Form
 absExpand(Func
 andConnect(INPUT
 angle(EXE
 approx([v]
 arcLen([v]
 arg([v]

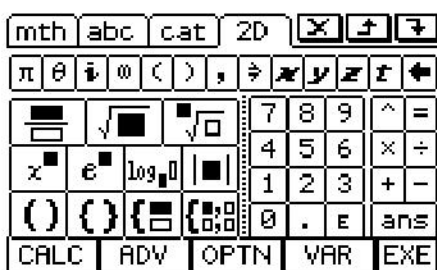
[←] [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [→]

[←] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [→]

Pause Form
 Plot Cmd
 PlotChg
 PlotOff INPUT
 PlotOn
 PoissonCD
 PoissonPD EXE

Pause Form
 Plot Cmd
 PlotChg
 PlotOff INPUT
 PlotOn
 PoissonCD
 PoissonPD EXE

Plot | [v]



	$\lim_{\square \rightarrow \square}$	
	$\frac{d}{d\square}$	



	$\frac{d}{dx}$	
	$\frac{d}{dx}$ $\frac{d^2}{dx^2}$	

□

□
□

math	abc	cat	2D	\times	\uparrow	\downarrow
π	θ	j	ω	()	,	\Rightarrow
x	y	z	r	\leftarrow		
F	F'	e	7	8	9	\wedge =
\mathcal{L}	\mathcal{L}'	Γ	4	5	6	\times \div
δ	δ^2	H	1	2	3	+ -
			0	.	E	ans
CALC	\leftarrow	VAR	EXE			

	\mathcal{F}	
	\mathcal{F}'	
	\mathcal{L}	
	\mathcal{L}'	
	Γ	
	δ	
	δ^2	
	H	



mth	abc	cat	2D	\times	\div	\rightarrow			
a	b	c	d	e	()	,	\rightarrow	\leftarrow
f	g	h	i	j	7	8	9	^	=
k	l	m	n	o	4	5	6	\times	\div
p	q	r	s	t	1	2	3	+	-
$\frac{\square}{\square}$	u	v	w		0	.	E	ans	
xy	z								
CALC	ADV	\leftarrow	EXE						

mth	abc	cat	2D	\times	\div	\rightarrow			
A	B	C	D	E	()	,	\rightarrow	\leftarrow
F	G	H	I	J	7	8	9	^	=
K	L	M	N	O	4	5	6	\times	\div
P	Q	R	S	T	1	2	3	+	-
$\frac{\square}{\square}$	U	V	W		0	.	E	ans	
XY	Z								
CALC	ADV	\leftarrow	EXE						

$$\frac{1}{0}$$

$$\frac{1}{5}$$

$$\frac{1}{5}$$

$$\frac{1}{5} + 1$$

$$\frac{1}{5} + \frac{3}{4}$$

 Σ 

$$\sum_{k=0}^n (k)$$

$$\sum_{k=1}^n (k)$$

$$\sum_{k=1}^n (k^2)$$

 x^n

$$\sum_{k=1}^n (k^2)$$

$$\int_{\square}^{\square} \square d\square$$

 x^n

$$\int_{\square}^{\square} (1-x^2)e^x dx$$



$$\int_0^1 (1-x^2)e^x dx$$







▼ Edit Action Interactive

0.5 | [undo] [redo] [undo] [redo] [undo] [redo] [undo] [redo]

NewFolder |

mth abc cat 2D [undo] [redo] [undo] [redo]

NDist	Form
NewFolder	Cmd ▼
Next	INPUT
NormalLine	
NormCD	
NormPD	
NPPlot	EXE

◀ LMNOPQRSTUVWXYZ ▶



```
NewFolder Test
done
|
```





mth	abc	cat	2D								
π	θ	i	ω	\langle	\rangle	$,$	\oplus	\otimes	\oslash	\ominus	\oplus
log	ln	\int		7	8	9	\wedge	=			
x^2	e^x	x^{-1}		4	5	6	\times	\div			
\langle	\rangle	$ x|$		1	2	3	+	-			
[	]	$(-)$		0	.	ϵ	ans			
TRIG	CALC	OPTN	VAR	EXE							

$2x+1 \neq eq1$	$2 \cdot x+1$
-----------------	---------------



$$\left| \begin{array}{l} \text{eq1} \\ 1+x-2 \end{array} \right| \quad \left| \begin{array}{l} 2 \cdot x+1 \end{array} \right|$$

$$\left| \begin{array}{l} \text{eq1} \\ 1+x-2 \end{array} \right| \quad \left| \begin{array}{l} 2 \cdot x+1 \end{array} \right|$$

$$\left| \begin{array}{l} \text{eq1}+x-2 \\ 1+x-2 \end{array} \right| \quad \left| \begin{array}{l} 3 \cdot x-1 \end{array} \right|$$

$$\left| \begin{array}{l} (1,2,3) \oplus \text{eq1} \\ 1+x-2 \end{array} \right| \quad \left| \begin{array}{l} (1,2,3) \end{array} \right|$$

$$\left| \begin{array}{l} \text{eq1} \times 2 \\ 1+x-2 \end{array} \right| \quad \left| \begin{array}{l} (2,4,6) \end{array} \right|$$



T

eq1	(1,2,3)
-----	---------

eq2	(4,5,6)
-----	---------

|

eq1	eq1
-----	-----

|

main\eq1	(1,2,3)
----------	---------

|



eq2

(4,5,6)

	list5	list6	
1			
2			
3			
4			
Cal			

[1] =

	list5	list6	list_t
1			12
2			24
3			36
Cal			

[4] =









Variable Manager [X]

Edit View All Search

Current: **main** [v]

<input type="checkbox"/>	<input checked="" type="checkbox"/>	abc	1Vars
<input type="checkbox"/>	<input type="checkbox"/>	bio	4Vars
<input type="checkbox"/>	<input type="checkbox"/>	expart	3Vars
<input type="checkbox"/>	<input type="checkbox"/>	main	4Vars
<input type="checkbox"/>	<input checked="" type="checkbox"/>	oka	4Vars

INPUT **Close**

Variable Manager [X]

Edit View All


-		bio	4Vars
<input type="checkbox"/>	<input type="checkbox"/>	abc	EXPR 200
<input type="checkbox"/>	<input checked="" type="checkbox"/>	def	MAT 202
<input type="checkbox"/>	<input type="checkbox"/>	draw_g	PRGM 220
<input type="checkbox"/>	<input type="checkbox"/>	xroot	FUNC 222

INPUT **Close**



Variable Manager		
Edit View All Search		
Current: main		
<input type="checkbox"/>	abc	1Vars
<input type="checkbox"/>	bio	4Vars
<input type="checkbox"/>	expart	3Vars
<input type="checkbox"/>	main	4Vars
<input type="checkbox"/>	oka	4Vars









▼ Edit Action Interactive

0,5 | /dx | a=... | V1:... |
1,2 | /dx | b=... | V2:...

{1,2,3}⇒list01 (1,2,3)
{2,3,4}⇒list02 (2,3,4)
{4,5,6}⇒bio\list02 (4,5,6)
list02×\list02

Variable Manager [X]

Edit View All Search

Current: main

<input type="checkbox"/>	abc	1Vars
<input checked="" type="checkbox"/>	bio	4Vars
<input type="checkbox"/>	expart	3Vars
<input type="checkbox"/>	main	4Vars
<input checked="" type="checkbox"/>	oka	4Vars

INPUT Close

▼ Edit Action Interactive

0,5 | /dx | a=... | V1:... |
1,2 | /dx | b=... | V2:...

{1,2,3}⇒list01 (1,2,3)
{2,3,4}⇒list02 (2,3,4)
{4,5,6}⇒bio\list02 (4,5,6)
list02×bio\list02



Variable Type ✕

ALL ▾

OK Cancel

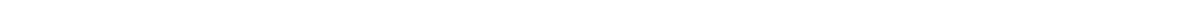
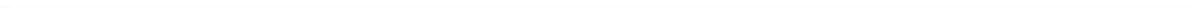




Copy ✕

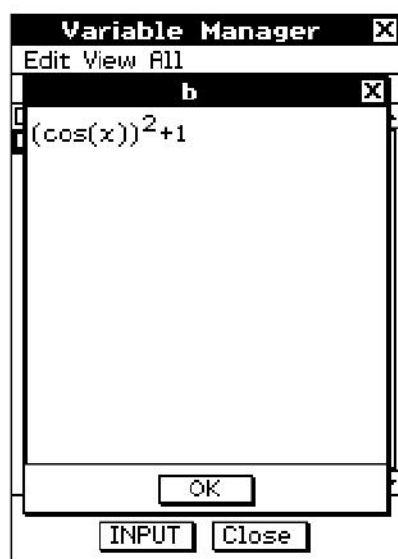
Copy variables to another folder.

To: ▾





<input type="checkbox"/> abc	1Vars
<input type="checkbox"/> bio	4Vars
<input type="checkbox"/> expert	3Vars
<input type="checkbox"/> main	4Vars
<input checked="" type="checkbox"/> oka	4Vars





▼ Edit Action Interactive

0.5 | $\frac{d}{dx}$ | $\frac{d^2}{dx^2}$ | a=... | V1:... | $\frac{d}{dt}$ | b=... | V2:...

{1,2,3}⇒list01 {1,2,3}

{2,3,4}⇒list02 {2,3,4}

{4,5,6}⇒bio\list02 {4,5,6}

list02×bio\list02 {8,15,24}

(cos(x))^2+1⇒bio\b (cos(x))^2+1

simplify(sin(x)^2+1)⇒

Variable Manager ✕

Edit View All

bio		4Vars
<input checked="" type="checkbox"/> b	EXPR	72 ▲
<input type="checkbox"/> list01	LIST	96
<input type="checkbox"/> list02	LIST	96
<input type="checkbox"/> p01	PICT	3576

▼ Edit Action Interactive

0.5 | $\frac{d}{dx}$ | $\frac{d^2}{dx^2}$ | a=... | V1:... | $\frac{d}{dt}$ | b=... | V2:...

{1,2,3}⇒list01 {1,2,3}

{2,3,4}⇒list02 {2,3,4}

{4,5,6}⇒bio\list02 {4,5,6}

list02×bio\list02 {8,15,24}

(cos(x))^2+1⇒bio\b (cos(x))^2+1

simplify(sin(x)^2+1)⇒





Graph Format [X]

Basic Special

Background
Off

Cell Width Pattern
3 Cells

Table Variable
Table Input
Table Input
list1
list2
list3
list4
list5
on

Stat Window Auto

Set Cancel Default

Select Data [X]

LIST

Folder: main

Name: ab

OK Cancel



Graph Format [X]

Basic Special

Background
Off

Cell Width Pattern
3 Cells

Table Variable
Table Input

Summary Table
View Window

Summary Table $f''(x)$
On

Stat Window Auto

Set Cancel Default



Basic Format [X]

Current Folder
main [v]

Number Format
Normal 1 [v]

Angle
Radian [v]

Advanced

- Complex Format
- Decimal Calculation
- Assistant
- Descending Order
- Variable is Real

[Set] [Cancel] [Default]







3D Format ✕

Coordinates
Rectangular ▾

Axes
Off ▾

Labels
Off ▾

Background
Off ▾

G-Controller



Geometry Format [X]

Number Format
Fix 2 [v]

Measure Angle
Degree [v]

Function Angle
Radian [v]

Axes
Number [v]

Integer Grid

Set Cancel Default





Advanced Format ✕

Fourier Transform

Transform Definition:
Pure Math ▼

$$F_x = \int_{-\infty}^{\infty} f(t) e^{-xtj} dt$$

FFT

FFT Scaling Constant:
Signal Processing ▼

$$F_n = \sum_{k=0}^{N-1} \left(x_k e^{\frac{-2\pi i k n}{N}} \right)$$

Assume positive real

Set
Cancel
Default

$F_x = \int_{-\infty}^{\infty} f(t) e^{-xtj} dt$	
$F_x = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} f(t) e^{xtj} dt$	
$F_x = \frac{1}{2\pi} \int_{-\infty}^{\infty} f(t) e^{xtj} dt$	
$F_x = \int_{-\infty}^{\infty} f(t) e^{xtj} dt$	
$F_x = \int_{-\infty}^{\infty} f(t) e^{-2\pi x t j} dt$	



Financial Format [X]

Basic [Special]

Days in Year
360 days [v]

Payment Date
End of period [v]

Date Format
MM/DD/YYYY [v]

Automatically copy
 common fields to new calculation

[Set] [Cancel] [Default]





Communication [X]

Screen Copy To
F1: yyy

Cable Type
USB cable

Speed(3Pin)
115200 bps

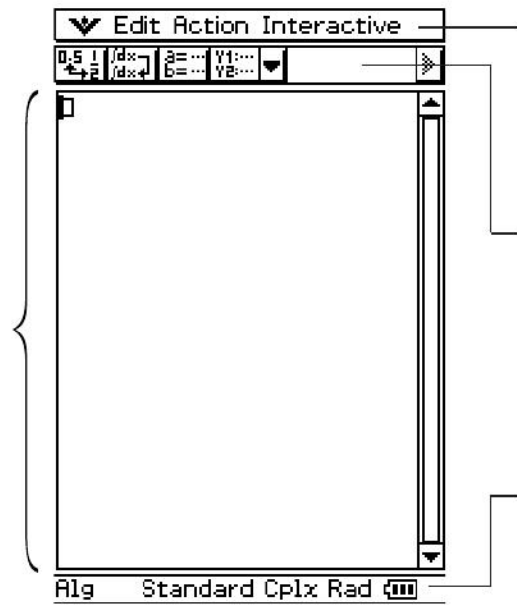
Wakeup Enable
On

Set Cancel Default





|



▼ Edit Action Interactive



$\frac{1}{2} + \frac{1}{3}$

$\frac{5}{6}$

nth abc cat 2D

π θ i ω \langle \rangle $,$ \div x y z t \leftarrow

$\frac{\square}{\square}$ $\sqrt{\square}$ $\sqrt{\square}$ 7 8 9 \wedge =

x^{\square} e^{\square} \log_{\square} $|\square|$ 4 5 6 \times \div

$()$ $()$ $\{\square\}$ $\{\square\}$ 1 2 3 $+$ $-$

CALC ADV OPTN VAR EXE

Alg Standard Cplx Rad





▼ Edit Type GMem ◆

Sheet1 Sheet2 Sheet3

y1 = $x^3 + x^2 + x + 1$ [—]

y2:

y3:

y4:

y5:

y6:

y7:

y8:



▼ Edit Action Interactive

0.5 | /dx | a=... | W1:... |

Sheet1 Sheet2 Sheet3

y1 = $x^3 + x^2 + x + 1$ [—]

y2:

y3:

y4:

y5:

y6:

y7:

y8:

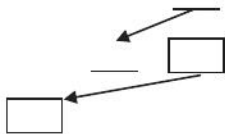
$x^3 + x^2$



—	



2.54E3	2540
1600E-4	0.16



123+456	579
789-ans	210
ans/7	30



$1/3$	$\frac{1}{3}$
ans $\times 3$	1



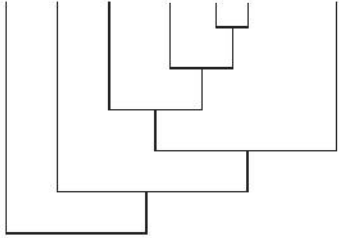
`x:=123` 123



`2/0` Undefined



$\sqrt{\quad}$





		—
		—
$\sqrt{\quad}$		$\sqrt{\quad}$
		—
		$\sqrt{\quad}$



		—

$\sqrt{\quad}$		$\sqrt{\quad}$





	$\sqrt{\quad}$	\quad	\quad
		$\sqrt{\quad}$	\quad
			$\sqrt{\quad}$





▼ Edit Action Interactive

0.5 | /ds | 3= | V1... | V2... | >

$x^2+2\cdot x+1$

factor(ans)

$(x+1)^2$

solve($x^3-x^2+x-1=0, x$)

{ $x=1, x=-i, x=i$ }

(36,49,64)→list1

f(list1)

{36,49,64}

ans→list2

{6,7,8}

list1×list2

{216,343,512}

f(list2)

{ $\sqrt{6}, \sqrt{7}, 2\cdot\sqrt{2}$ }

Alg Standard Cplx Rad



▼ Edit Action Interactive

0.5 | /ds | 3= | V1... | V2... | >

$\frac{4115}{333}$

12345/9999

$\frac{4115}{3333}$

12345/99999

$\frac{4115}{33333}$

expand($(x+1)^2$)

$x^2+2\cdot x+1$

factor(ans)

$(x+1)^2$

solve($x^3-x^2+x-1=0, x$)

{ $x=1, x=-i, x=i$ }

(36,49,64)→list1

{36,49,64}

Alg Standard Cplx Rad



▼ Edit Action Interactive

0.5 | /ds | 3= | V1... | V2... | >

12345/9

$\frac{4115}{3}$

12345/99

$\frac{4115}{33}$

12345/999

$\frac{4115}{333}$

12345/9999

$\frac{4115}{3333}$

12345/99999

$\frac{4115}{33333}$

Alg Standard Cplx Rad



7+5	12
ans×2	24
ans+6	30
□	

7+5	12
ans×3	36
ans+6	42
□	

7+5	12
ans×3	24
ans+6	30
□	



▼ Edit Action Interactive

0.5 | $\frac{1}{d \times d}$ | $\frac{a}{b} = \dots$ | Y1: \dots | Y2: \dots | \gg

1000/9	$\frac{1000}{9}$
ans/9	$\frac{1000}{81}$
ans/9	$\frac{1000}{729}$

Alg Standard Cplx Rad $\frac{1000}{9}$

▼ Edit Action Interactive

0.5 | $\frac{1}{d \times d}$ | $\frac{a}{b} = \dots$ | Y1: \dots | Y2: \dots | \gg

1000/9	$\frac{1000}{9}$
ans/9	12.34567901
ans/9	1.371742112

Alg Decimal Cplx Rad $\frac{1000}{9}$





I



					T T
—					
					T
—					



√



√					
√					
					T

√



—					
————					



$\sqrt{\quad}$



$\sqrt{\quad} \sqrt{\quad}$					
$\sqrt{\quad}$					
$\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$					
					!
$\frac{\quad}{\quad}$ $\frac{\quad}{\quad}$					



					int



















					◀

}

}

					◀



$\sqrt{\quad}$					<input type="checkbox"/>

					<input type="checkbox"/>



VI



					VI

					VI
					VI



$\delta(x)$	$\delta(x)$
$\delta(-2)$	0
$\delta(3)$	0
$\delta(0)$	$\delta(0)$
$\int_{-\infty}^{\infty} \delta(x) dx$	1
$\frac{d}{dx}(\delta(x))$	$\delta^{(1)}(x)$
$\int_{-\infty}^{\infty} \delta(x) dx$	$H(x)$

$\delta(x, 3)$	$\delta^{(3)}(x)$
$\frac{d^3}{dx^3}(\delta(x))$	$\delta^{(3)}(x)$



{

heaviside (x)	$H(x)$
$H(-1)$	0
$H(0)$	$\frac{1}{2}$
$H(1)$	1
$\frac{d}{dx}(H(x))$	$\delta(x)$



▼ Edit Action Interactive

gamma(x) $\Gamma(x)$

$\Gamma(3)$ 2

$\Gamma(1.5)$ $\frac{\sqrt{\pi}}{2}$

Alg Standard Real Rad

▼ File Edit View Draw

gamma(x) $\Gamma(x)$

Alg Standard Real Rad



▼ Edit Action Interactive

0.5	1	id...	a...	V1...
2	id...	b...	YB...	

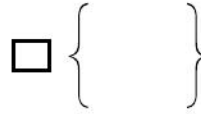
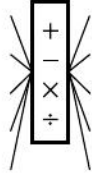
{1, 2, 3} → lista {1, 2, 3}

□



(1,2,3)↔lista	(1,2,3)
lista[2]	2

(1,2,3)↔lista	(1,2,3)
lista[2]	2
5↔lista[2]	(1,5,3)



```
(41,65,22)⇒list3  
list3×(6,0,4) (41,65,22)  
(246,0,88)
```



$(10, 20, 30) \rightarrow (x, y, z)$
 $(10, 20, 30)$



[]

▼ Edit Action Interactive

0,5 | /dx←	a=...	V1...
← | /dx←	b=...	V2...

[[1,2][3,4]]⇒mat1

1	2
3	4

□



[]

[]

```
[[1,2][3,4]]⇒mat1  
mat1[2,1] 3  
[1 2]  
[3 4]
```

```
mat1[2,1] 3  
5⇒mat1[1,2]  
[1 5]  
[3 4]
```

[]



[]

```
[1 2]
```

```
[1 2 3]
```

```
[1 2 3  
4 5 6]
```

```
[1 2 3] @mat2  
[4 5 6]  
□ [1 2 3  
4 5 6]
```



$$\begin{bmatrix} & \\ & \end{bmatrix} \begin{bmatrix} & \\ & \end{bmatrix}$$

$$\begin{bmatrix} [[1,1][2,1]]+[[2,3][2,1]] \\ \begin{bmatrix} 3 & 4 \\ 4 & 2 \end{bmatrix} \end{bmatrix}$$

$$\begin{bmatrix} & \\ & \end{bmatrix} \begin{bmatrix} & \\ & \end{bmatrix}$$

$$\begin{bmatrix} \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \end{bmatrix}$$

$$\begin{bmatrix} \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \otimes \end{bmatrix}$$



$$\begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} 2 & 3 \\ 2 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} 2 & 3 \\ 2 & 1 \end{bmatrix}$$

$\begin{bmatrix} 4 & 4 \\ 6 & 7 \end{bmatrix}$

[]

$$[[1,2][3,4]] \times 5$$

$\begin{bmatrix} 5 & 10 \\ 15 & 20 \end{bmatrix}$



[]



$$\left[\begin{array}{l} [[1,2][3,4]]^3 \\ \square \end{array} \right] \left[\begin{array}{cc} 37 & 54 \\ 81 & 118 \end{array} \right]$$

$$\left[\begin{array}{l} \left[\begin{array}{cc} 1 & 2 \\ 3 & 4 \end{array} \right]^3 \\ \square \end{array} \right] \left[\begin{array}{cc} 37 & 54 \\ 81 & 118 \end{array} \right]$$



$$\left[\begin{array}{l} \left[\begin{array}{cc} 10 & \begin{array}{c} \times \\ \rightarrow \\ \times \end{array} \\ 20 & \rightarrow \\ 30 & \times \end{array} \right] \\ \square \end{array} \right] \left[\begin{array}{c} 10 \\ 20 \\ 30 \end{array} \right]$$



$\sqrt{\quad}$



VII
VII

VII
VII

VII
VII

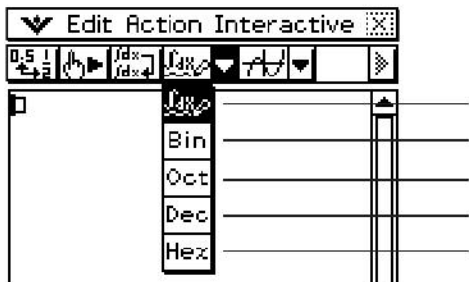
VII
VII

VII
VII

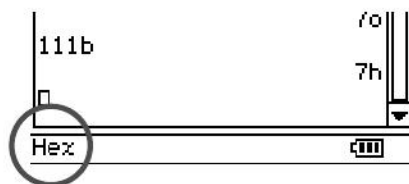
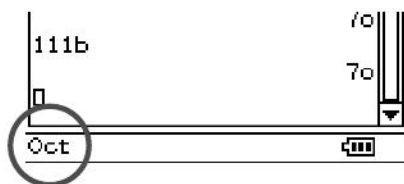
VII
VII

VII
VII

VII
VII



Bin





Bin

10111+11010
110001b

Oct

(11+7)^2
400o

Hex

123d+1010b
85h




```
1010 and 1100  
1000b
```

```
1011 or 11010  
11011b
```

```
1010 xor 1100  
110b
```

```
not(ffff)  
FFFF0000h
```

```
baseConvert(579, 15, 12)  
873  
baseConvert(100, 13, 10)  
169  
baseConvert(123, 16, 3)  
101210
```




```
* 2][3,4]], [[5,6][7,8]])
```

$$\begin{bmatrix} 1 & 2 & 5 & 6 \\ 3 & 4 & 7 & 8 \end{bmatrix}$$

```
augment([[1,2][3,4]], [[5,6][7,8]])
```

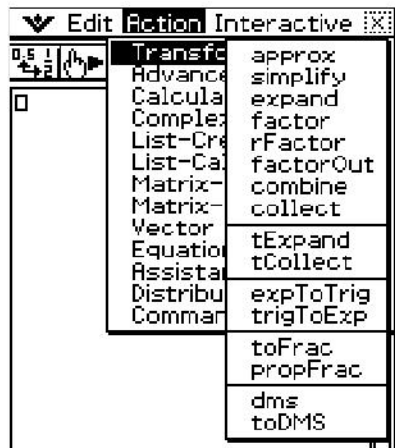
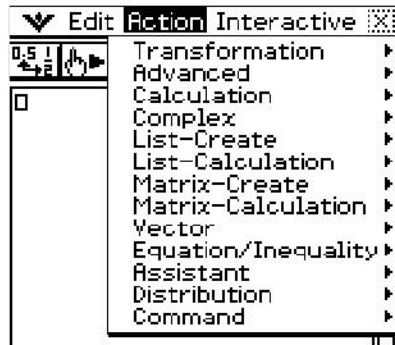
$$\begin{bmatrix} 1 & 2 & 5 & 6 \\ 3 & 4 & 7 & 8 \end{bmatrix}$$

```
eigVc([[3,4][1,3]])
```

$$\begin{bmatrix} 0.894427191 & -0.894427 \\ 0.4472135955 & 0.4472135 \end{bmatrix}$$

```
eigVc([[3,4][1,3]])
```

$$\begin{bmatrix} 0.894427191 & -0.894427191 \\ 0.4472135955 & 0.4472135955 \end{bmatrix}$$



$\sqrt{}$

approx($\sqrt{2}$)
1.414213562

approx(9^{20})
1.215766546E+19



√

$$\text{simplify}((15\sqrt{3} + 26)^{(1/3)})$$
$$2 + \sqrt{3}$$

$$\text{simplify}(\cos(2x) + \sin(x)^2)$$
$$(\cos(x))^2$$

$$\text{expand}((x+2)^2)$$
$$x^2 + 4 \cdot x + 4$$

$$\text{expand}\left(\frac{1}{x^4 - 1}, x\right)$$
$$\frac{1}{4 \cdot (x-1)} - \frac{1}{4 \cdot (x+1)} - \frac{1}{2 \cdot (x^2 + 1)}$$

$$\text{factor}(x^2 - 4x + 4)$$
$$(x-2)^2$$



$$\text{rFactor}(x^2-3)$$
$$(x-\sqrt{3}) \cdot (x+\sqrt{3})$$

$$\text{factorOut}(a \cdot x^2 + b \cdot x + c, a)$$
$$a \cdot \left(x^2 + \frac{1}{a} \cdot b \cdot x + \frac{1}{a} \cdot c \right)$$

$$\text{combine}\left(\frac{x+1}{x+2} + x(x+3)\right)$$
$$\frac{x^3 + 5 \cdot x^2 + 7 \cdot x + 1}{x+2}$$

$$\text{collect}(x^2 + a \cdot x + b \cdot x)$$
$$x^2 + (a+b) \cdot x$$



```
tExpand(sin(a+b))  
cos(b)·sin(a)+sin(b)·cos(a)
```

```
tCollect(cos(a)×cos(b))  
cos(a+b)+cos(a-b)  
2
```

```
expToTrig(e^(i·x))  
cos(x)+sin(x)·i
```

```
trigToExp(cosh(x))  
ex+e-x  
2
```

```
toFrac(5.28)  
132  
25
```



```
propFrac(1.2)
```

 $1 + \frac{1}{5}$

```
propFrac(x^2/(x-1))
```

 $\frac{1}{x-1} + x + 1$

```
dms(3,5,6)
```

 $\frac{617}{200}$

```
toDMS(3.085)
```

 $\text{dms}(3,5,6)$



0.5 |	▼ Edit	Action	Interactive	✕
+	▶	▶	▶	
		Transformation	▶	
		Advanced	solve	
		Calcula	dSolve	
		Comple		
		List-Cr	taylor	
		List-Ca	laplace	
		Matrix-	invLaplace	
		Matrix-	fourier	
		Vector-	invFourier	
		Equatic	FFT	
		Assista	IFFT	
		Distribution	▶	
		Command	▶	

$\text{taylor}(\sin(x), x, 5, 0)$ $\frac{x^5}{120} - \frac{x^3}{6} + x$

✓



```
laplace(x'+2x=e^{-t}, t, x, s)
      -x(0)+Lp*s+2*Lp=1/(s+1)
ans|x(0)=3
      Lp*s+2*Lp-3=1/(s+1)
solve(ans, Lp)
      {Lp=3*s/(s^2+3*s+2)+4/(s^2+3*s+2)}
invlaplace(getright(ans[1]), s, t)
      e^{-t}+2*e^{-2*t}
```

✓



$$\sqrt{\quad}$$

$$\sqrt{\quad}$$

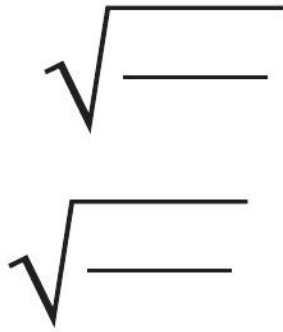
				$\frac{\sqrt{\quad}}{\sqrt{\quad}}$
				$\frac{\quad}{\quad}$



—

$\sqrt{\quad}$

$\sqrt{\quad}$



▼ Edit	Action	Interactive	✕
0.5 |	Transformation	▶	
4 |	Advanced	▶	
□	Calc	diff	
	Comp	impDiff	
	List-	J	
	List-	lim	
	Matr	Σ	
	Matr	∏	
	Vect	rangeAppoint	
	Equa	mod	
	Assis		
	Distr	tanLine	
	Comr	normal	
		arcLen	
		fMin	
		fMax	
		gcd	
		lcm	
		denominator	
		numerator	



$$\text{diff}(x^6)$$
$$6 \cdot x^5$$

$$\text{diff}(x^6, x, 2)$$
$$30 \cdot x^4$$

$$\text{diff}(x^6, x, 2, 3)$$
$$2430$$

$$\text{impDiff}(x+y=x/y, x, y)$$
$$y' = \frac{-y^2}{y^2+x} + \frac{y}{y^2+x}$$

$$\text{impDiff}(-x/y, x, y)$$
$$\frac{x \cdot y'}{y^2} - \frac{1}{y}$$

$$\text{impDiff}(\{y^2-x^2=3, y/x=1/y^2\}, x, y)$$
$$\left\{ y' = \frac{x}{y}, y' = \frac{y^4}{2 \cdot x^2 + x \cdot y^3} \right\}$$



$$f(x) \quad \frac{x^2}{2}$$

$$f(1/(x \ln(x)), x, 1, 2) \quad 0$$

$$f(2x^2+3x+4, x, 1, 5, 1E-4) \quad 134.6666667$$



$$\lim(e^{-x}, x, 0) \quad 0$$

$$\lim(1/x, x, 0, 1) \quad 0$$

$$\lim(1/x, x, 0, -1) \quad -0$$

$$\Sigma(x^2, x, 1, 10) \quad 385$$

$$\Pi(x^2, x, 1, 5) \quad 14400$$

rangeApoint($x=\pi, x=2\pi, x=3\pi$), 0, 5)
{ $x=\pi$ }

rangeApoint(constn(1) $\times\pi$, 0, 5)
{0, π }

mod(26, 3)
2

tanLine($x^3, x, 2$)
 $12 \cdot x - 16$

normal($x^3, x, 2$)
 $-\frac{x}{12} + \frac{49}{6}$

arcLen($x^{3/2}, x, 0, 4$)
 $\frac{80 \cdot \sqrt{10}}{27} - \frac{8}{27}$



fMin(x^2-1, x)
{MinValue=-1, x=0}

fMin($x^2-1, x, 2, 3$)
{MinValue=3, x=2}

fMin($x^3-6x, x, -2, 2, 1$)
{MinValue=-5.656779, x=1.41}


$$\text{fMax}(-x^2+1, x)$$
$$\{ \text{MaxValue}=1, x=0 \}$$
$$\text{fMax}(-x^2+1, x, 2, 5)$$
$$\{ \text{MaxValue}=-3, x=2 \}$$
$$\text{fMax}(x^3-6x, x, -2, 2, 1)$$
$$\{ \text{MaxValue}=5.656779, x=-1.41 \}$$
$$\text{gcd}(x+1, x^2-3x-4)$$
$$x+1$$



$$\text{lcm}(x^2-1, x^2+2x-3)$$
$$(x+1) \cdot (x^2+2x-3)$$

$$\text{denominator}((y-2)/(x+1))$$
$$x+1$$

$$\text{numerator}((y-2)/(x+1))$$
$$y-2$$

▼ Edit	Action	Interactive
	Transformation	▶
	Advanced	▶
	Calculation	▶
	Complex	▶
	List-O	conjs
	List-O	re
	Matrix	im
	Matrix	cExpand
	Vector	
	Equati	compToPol
	Assist	compToTrig
	Distribution	▶
	Command	▶

$$\text{arg}(2+i)$$
$$\tan^{-1}\left(\frac{1}{2}\right)$$



```
conjg(1+i)      1-i
```

```
re(3-4i)        3
```

```
im(3-4i)        -4
```

```
cExpand(cos-1(2))  
ln(√3 + 2)·i
```



compToPol(1+i)

$$\sqrt{2} \cdot e^{\frac{\pi \cdot i}{4}}$$

compToTrig(1+i)

$$\sqrt{2} \cdot \left(\cos\left(\frac{\pi}{4}\right) + \sin\left(\frac{\pi}{4}\right) \cdot i \right)$$

▼	Edit	Action	Interactive	✕
		Transformation	▶	
		Advanced	▶	
		Calculation	▶	
		Complex	▶	
		List-Cre	seq	
		List-Cal	augment	
		Matrix-	fill	
		Matrix-	subList	
		Vector	shift	
		Equation	rotate	
		Assistan		
		Distrib	sortA	
		Commar	sortD	
			listToMat	
			matToList	



```
seq(x^2+2x, x, 1, 5, 2)
      (3, 15, 35)
```

```
augment((1,2), (3,4))
      (1, 2, 3, 4)
```

```
fill(2, 4)
      (2, 2, 2, 2)
```

```
fill(3, (1, 2, 3))
      (3, 3, 3)
```

```
fill((a, b, c), (1, 2, 3))
      (a, b, b, c, c, c)
```



```
subList({1,2,3,4,5},2,4)  
      {2,3,4}
```

```
shift({1,2,3,4,5,6},3)  
{4,5,6,Undefined,Undefined,Undefined}
```

```
rotate({1,2,3,4,5,6},2)  
      {3,4,5,6,1,2}
```

```
sortA({1,5,3})  
      {1,3,5}
```



```
sortD({1,5,3})  
      (5,3,1)
```

```
listToMat({3,5},{2,4})  
          [3 2]  
          [5 4]
```

▼	Edit	Action	Interactive	✕
0.5 1 0.5 4 2 0 ▶		Transformation	▶	
		Advanced	▶	
		Calculation	▶	
		Comple	min	
		List-Cr	max	
		List-Ca	mean	
		Matrix-	median	
		Matrix-	mode	
		Vector	Q ₁	
		Equatio	Q ₃	
		Assista	percentile	
		Distribu	stdDev	
		Commar	variance	
			dim	
			sum	
			prod	
			cuml	
			dlist	
			percent	
			polyEval	
			sequence	
			sumSeq	



$$\min(\{1, 2, 3\}) \quad 1$$

$$\min(\{1, 2, 3\}, 2) \quad \{1, 2, 2\}$$

$$\min(\{1, 2, 3\}, \{3, 1, 2\}) \quad \{1, 1, 2\}$$

$$\max(\{1, 2, 3\}) \quad 3$$

$$\max(\{1, 2, 3\}, 2) \quad \{2, 2, 3\}$$

$$\max(\{1, 2, 3\}, \{3, 1, 2\}) \quad \{3, 2, 3\}$$



```
mean({1,2,3})
```

2

```
mean({1,2,3},{3,2,1})
```

$\frac{5}{3}$

```
median({1,2,3})
```

2

```
median({1,2,3},{3,2,1})
```

$\frac{3}{2}$

```
mode({1,1,2,2,2})
```

2

```
mode({1,2,3},{3,2,1})
```

1



$$Q_1(\{1, 2, 3, 4, 5\}) = \frac{3}{2}$$

$$Q_1(\{1, 2, 3, 4\}, \{4, 3, 2, 1\}) = 1$$

$$Q_3(\{1, 2, 3, 4, 5\}) = \frac{9}{2}$$

$$Q_3(\{1, 2, 3, 4\}, \{4, 3, 2, 1\}) = 3$$

$$\begin{aligned} \text{percentile}(\{1, 2, 3, 4\}, 70) &= 3.1 \\ 1 + (4 - 1) \times 0.7 &= 3.1 \end{aligned}$$

$$\text{stdDev}(\{1, 2, 4\}) = \frac{\sqrt{21}}{3}$$



`variance({1,2,4})`

$\frac{7}{3}$

`dim({1,2,3})`

3

`sum({1,2,3})`

6

`sum({1,2,3},{3,2,1})`

10

`prod({1,2,3})`

6

`prod({1,2,3},{3,2,1})`

12



```
cuml({1,2,3})  
      {1,3,6}
```

```
dlist({1,2,4})  
      {1,2}
```

```
percent({1,2,3})  
        { $\frac{50}{3}, \frac{100}{3}, 50$ }
```

```
polyEval({1,2,3})  
           $x^2+2\cdot x+3$ 
```

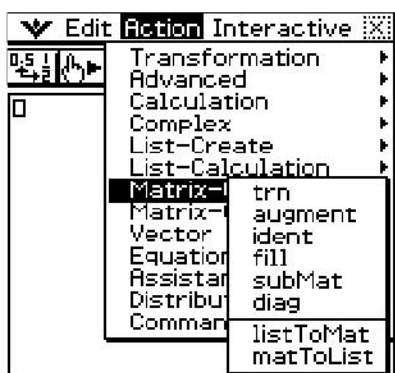


$$\text{sequence}(\{3, 5, 7, 9\})$$
$$2 \cdot x + 1$$

$$\text{sequence}(\{1, 3, 5, 7\}, \{0, -1, 2, -3\})$$
$$\frac{-x^3}{4} + \frac{11 \cdot x^2}{4} - \frac{33 \cdot x}{4} + \frac{23}{4}$$

$$\text{sumSeq}(\{3, 5, 7, 9\})$$
$$x^2 + 2 \cdot x$$

$$\text{sumSeq}(\{9, 7, 4, 1\}, \{0, 4, 6, 5\})$$
$$\frac{-x^4}{320} - \frac{17 \cdot x^3}{1440} + \frac{21 \cdot x^2}{64} + \frac{6749 \cdot x}{1440}$$



```
trn([[1,2],[3,4]])
```

$$\begin{bmatrix} 1 & 3 \\ 2 & 4 \end{bmatrix}$$

```
augment([[1,2],[3,4]],[[5,6],[7,8]])
```

$$\begin{bmatrix} 1 & 2 & 5 & 6 \\ 3 & 4 & 7 & 8 \end{bmatrix}$$

```
ident(2)
```

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$



```
fill(2,2,3)
```

```
[ 2 2 2 ]  
[ 2 2 2 ]
```

```
fill(3,[[1,2][3,4]])
```

```
[ 3 3 ]  
[ 3 3 ]
```

```
[[1,4,7][2,5,8][3,6,9]]⇒Mat1
```

```
[ 1 4 7 ]  
[ 2 5 8 ]  
[ 3 6 9 ]
```

```
subMat(Mat1,2,2,3,3)
```

```
[ 5 8 ]  
[ 6 9 ]
```

```
diag([[1,2][3,4]])
```

```
[ 1 4 ]
```



```
matToList([[1,2][3,4]],2)
(2,4)
```

▼ Edit Action Interactive

0.5 1 2 3 4 5 6 7 8 9 10 11 12

□

- Transformation
- Advanced
- Calculation
- Complex
- List-Cre
- List-Calc
- Matrix-C
- Matrix-C**
- Vector
- Equation
- Assistan
- Distribut
- Command

- dim
- det
- norm
- rank
- ref
- rref
- eigVl
- eigVc
- LU
- QR
- swap
- mRow
- mRowAdd
- rowAdd
- rowDim
- rowNorm
- colDim
- colNorm

```
dim([[1,2,3][4,5,6]])
(2,3)
```

```
det([[1,2][4,5]])
-3
```



```
norm([[1,2][4,5]])  
√46
```

```
rank(  
  [ 1 2 3  
  3 4 5  
  2 4 6 ]  
)  
2
```

```
ref([[1,2,3][4,5,6]])  
[ 1 2 3  
  0 1 2 ]
```

```
rref([[2,-1,3,19][1,1,-5,-21][0,4,3,0]])  
[ 1 0 0 2  
  0 1 0 -3  
  0 0 1 4 ]
```

```
eigVl([[3,4][1,3]])  
{5, 1}
```



eigVc([[3,4][1,3]])
[0.894427191 -0.894427191]
[0.4472135955 0.4472135955]

LU([[1,2,3][4,5,6][7,8,9]],*L,U*)
done

L
[1 0 0]
[4 1 0]
[7 2 1]

U
[1 2 3]
[0 -3 -6]
[0 0 0]



```
QR([[1,2],[3,4]],Q,R)
done
```

$$Q = \begin{bmatrix} \frac{\sqrt{10}}{10} & \frac{3 \cdot \sqrt{10}}{10} \\ \frac{3 \cdot \sqrt{10}}{10} & \frac{-\sqrt{10}}{10} \end{bmatrix}$$

$$R = \begin{bmatrix} \sqrt{10} & \frac{7 \cdot \sqrt{10}}{5} \\ 0 & \frac{\sqrt{10}}{5} \end{bmatrix}$$

```
swap([[1,2],[3,4]],2,1)
[3 4]
[1 2]
```

```
mRow(x,[[1,2],[3,4]],1)
[x 2*x]
[3 4]
```

mRowAdd(x, [[1, 2][3, 4]], 1, 2)

$$\begin{bmatrix} 1 & 2 \\ x+3 & 2 \cdot x+4 \end{bmatrix}$$

rowAdd([[1, 2][3, 4]], 1, 2)

$$\begin{bmatrix} 1 & 2 \\ 4 & 6 \end{bmatrix}$$

rowDim([[1, 2, 3][4, 5, 6]])

$$2$$

rowNorm([[1, -2, 3][4, -5, -6]])

$$15$$

colDim([[1, 2][3, 4][5, 6]])

$$2$$



```
colNorm([[1,-2,3][4,-5,-6][-7,8,9]])  
18
```

▼ Edit Action Interactive ✕

	Transformation ▶
	Advanced ▶
	Calculation ▶
	Complex ▶
	List-Create ▶
	List-Calculation ▶
	Matrix-Create ▶
	Matrix-Calculation ▶
	Vector
	augment
	fill
	dim
	unitV
	angle
	norm
	crossP
	dotP
	toRect
	toPol
	toSph
	toCyl



```
augment([1,2],[3,4])  
[1 2 3 4]
```

```
fill(x,[1,2])  
[x x]
```

```
fill(3,1,3)  
[3 3 3]
```

```
dim([1,2,3])  
{1,3}
```

```
unitV([1,3,5])  
[  $\frac{\sqrt{35}}{35}$     $\frac{3 \cdot \sqrt{35}}{35}$     $\frac{\sqrt{35}}{7}$  ]
```



$$\text{angle}([1,2],[3,4])$$
$$\cos^{-1}\left(\frac{11 \cdot \sqrt{5}}{25}\right)$$

$$\text{norm}([1,2,3])$$
$$\sqrt{14}$$

$$\text{crossP}([1,3,5],[2,4,6])$$
$$[-2 \ 4 \ -2]$$

$$\text{dotP}([1,3,5],[2,4,6])$$
$$44$$



$\sqrt{\quad}$

```
toRect([sqrt(2), <(pi/4)>])  
[1 1]
```

```
toPol([1,2])  
[sqrt(5) <(-tan^-1(1/2) + pi/2)>]
```

```
toSph([1,1,1])  
[sqrt(3) <(pi/4) <cos^-1(sqrt(3)/3)>]]
```



$$\text{toCyl}([1, 1, 1])$$
$$\left[\sqrt{2} \quad \angle \left(\frac{\pi}{4} \right) \quad 1 \right]$$

▼ Edit	Action	Interactive	✕
0.5	Transformation	▶	
↔	Advanced	▶	
	Calculation	▶	
	Complex	▶	
	List-Create	▶	
	List-Calculation	▶	
	Matrix-Create	▶	
	Matrix-Calculation	▶	
	Vector	▶	
	Equat	solve	
	Assist	dSolve	
	Distrib	rewrite	
	Comm	exchange	
		eliminate	
		absExpand	
		andConnect	
		getRight	
		getLeft	
		and	
		or	
		xor	
		not	



solve($ax+b=0$)

$$\left\{ x = \frac{-b}{a} \right\}$$

solve($(3x+4y=5, 2x-3y=-8), (x, y)$)
 $(x=-1, y=2)$



{ : |



$$\left\{ \begin{array}{l|l} 3x+4y=5 & x, y \\ 2x-3y=-8 & \end{array} \right. (x=-1, y=2)$$





```
solve(cos(x)=0.5,x,0)
{x=-780,x=-660,x=-420,x=-300,x=-60,x=60,x=300,x=420,x=660,x=780}
```

```
dSolve(y'=x,x,y,x=0,y=1)
{y=x^2/2+1}
```

√

```
dSolve({y'=y+z,z'=y-z},x,{y,z},x=0,y=3,x=0,z=(2)-3)
{y=2·e^√2·x+e^-√2·x,z=-2·e^√2·x-e^-√2·x+2·√2·e^√2·x-√2·e^-√2·x}
```

```
rewrite(x+3=5x-x^2)
x^2-4·x+3=0
```



```
exchange(3>5x-2y)
5·x-2·y<3
```

```
eliminate(2x+3y=5, x, y=2x+3)
4·y-3=5
```

```
absExpand(|2x-3|=9)
2·x-3=9 or 2·x-3=-9
```

```
andConnect(x>-1, x<3)
-1<x<3
```

```
getRight(y=2x^2+3x+5)
2·x2+3·x+5
```



getLeft($y=2x^2+3x+5$)	y
--------------------------	-----

$x^2 > 1$ and $x < 0$	$x < -1$
-----------------------	----------

$x = 3$ or $x > 2$	$x > 2$
--------------------	---------

$x < 2$ xor $x < 3$	$2 \leq x < 3$
---------------------	----------------

not($x = 1$)	$x \neq 1$
----------------	------------



```
arrange(2x+3-5x+8y)
      -5·x+2·x+8·y+3
```

```
2x+1→s
      2·x+1
replace(3x+2s)
      3·x+2·(2·x+1)
```

```
invert(2x=y)
      2·y=x
```

clear_a_z

done

▼ Edit Action **Interactive** [X]

0.5 | [←] | [→] | [↵]

- Transformation ▶
- Advanced ▶
- Calculation ▶
- Complex ▶
- List-Create ▶
- List-Calculation ▶
- Matrix-Create ▶
- Matrix-Calculation ▶
- Vector ▶
- Equation/Inequality ▶
- Assistant ▶
- Distribution** ▶
- Inv. ▶
- Defin. ▶
- apply ▶

- normPDF
- normCdf
- tPdf
- tCdf
- chiPDF
- chiCdf
- fPDF
- fCdf
- binomialPDF
- binomialCdf
- poissonPDF
- poissonCdf
- geoPDF
- geoCdf
- hypergeoPDF
- hypergeoCdf

Alg Decimal Cplx Rad [R]

▼ Edit Action **Interactive** [X]

0.5 | [←] | [→] | [↵]

- Transformation ▶
- Advanced ▶
- Calculation ▶
- Complex ▶
- List-Create ▶
- List-Calculation ▶
- Matrix-Create ▶
- Matrix-Calculation ▶
- Vector ▶
- Equation/Inequality ▶
- Assistant ▶
- Distribution ▶
- Inv.** ▶
- De ▶
- ap ▶

- invNormCdf
- invTCdf
- invChiCdf
- invFCdf
- invBinomialCdf
- invPoissonCdf
- invGeoCdf
- invHypergeoCdf

Alg Decimal Cplx Rad [R]



normPDF(37.5, 2, 35)
0.09132454269



```
normCdf(-∞, 36, 2, 35)
0.6914624613
```

```
invNormCdf("L", 0.7, 2, 35)
36.04880103
```

```
tPdf(2, 5)
0.06509031033
```



tCDF(1.5, 0, 18)
0.07547522609

invTCDF(0.0754752, 18)
1.500000203

chiPDF(2, 4)
0.1839397206

chiCDF(2.7, 0, 4)
0.6092146125

invChiCdf(0.6092146, 4)
2.700000072



fPmf(1.5, 24, 19)
0.3951671524

fCDF(1.5, 0, 24, 19)
0.185196483

invFCDF(0.1852, 24, 19)
1.4999911

binomialPmf(5, 3, 0.63)
0



```
binomialCDF(2,5,3,0.63)  
0.690606
```

WARNING! [X]

prob = 0.032
zInv = 1

prob-1E-3 = 0.031
*zInv = 0

OK

invBinomialCDF(0.032,5,0.1) 1

```
invBinomialCDF(0.609,5,0.1) 3
```



```
poissonPDF(10,6)
0.04130309341
```

```
poissonCDF(2,3,2.26)
0.4672462698
```

WARNING!

prob = 0.736
zInv = 2

prob-1E-3 = 0.735
*zInv = 1

OK

invPoissonCDF(0.736,1)

invPoissonCdf(0.8074, 2.26)
3



geoPmf(6, 0.4)
0.031104

geoCDF(2, 3, 0.5)
0.375

WARNING! [X]

prob = 0.76
zInv = 3

prob-0.01 = 0.75
*zInv = 2

OK

invGeoCdf(0.76, 0.5)
3



```
invGeoCDF(0.875,0.5) 3
```

```
hypergeoPDF(1,5,10,20)  
0.1354489164
```

```
hypergeoCDF(0,1,5,10,20)  
0.1517027864
```



WARNING! ✕

prob = 0.02
xInv = 1

prob=0.01 = 0.01
*xInv = 0

OK

invHypergeoCdf(0.02, 5, 10, ▶
1



invHypergeoCdf(0.3, 5, 10, ▶
2



▼ Edit Action Interactive 

x^3-3x^2+3x-1 

▼ Edit Action Interactive 

factor(x^3-3x^2+3x-1) 

$(x-1)^3$ 



▼ Edit Action Interactive

x^3 \int $\frac{dx}{dx}$ \int \int \int \int \int \int

factor(|

▼ Edit Action Interactive

x^3 \int $\frac{dx}{dx}$ \int \int \int \int \int \int

factor(x^3-3x^2+3x-1)

▼ Edit Action Interactive

x^3 \int $\frac{dx}{dx}$ \int \int \int \int \int \int

factor(x^3-3x^2+3x-1)
 $(x-1)^3$

▼ Edit Action Interactive

x^2+2x

∫

Indefinite integral
 Definite Numeric

Expression: x^2+2x

Variable: x

OK Cancel



∫

Indefinite integral
 Definite Numeric

Expression:

Variable:

Lower:

Upper:

▼ Edit Action Interactive

$$\int_1^2 x^2 + 2 \cdot x dx$$

$$\frac{16}{3}$$

∫

Indefinite integral
 Definite Numeric

Expression:

Variable:

∫

Indefinite integral
 Definite Numeric

Expression:

Variable:



$$\frac{\text{diff}(\sin(x), x) \times \cos(x) + \sin(x) \times \text{diff}(\cos(x), x)}{(\cos(x))^2 - (\sin(x))^2}$$

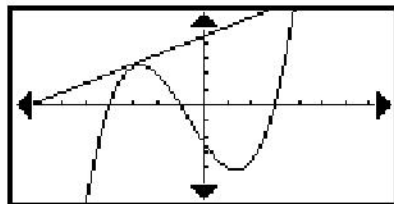
$$\frac{\text{diff}(\sin(x), x) \times \cos(x) + \sin(x) \times \text{diff}(\cos(x), x)}{(\cos(x))^2 - (\sin(x))^2}$$

$$\text{apply}(\text{diff}(\sin(x), x)) \times \cos(x) + \sin(x) \times \text{diff}(\cos(x), x) \\ \cos(x) \cdot \cos(x) + \sin(x) \cdot \frac{d}{dx} \cos(x)$$



Edit Action Interactive

0.5





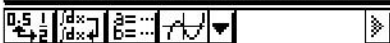
▼ Edit Zoom Analysis ◆

factor(x^2-1)
 $(x-1)\cdot(x+1)$

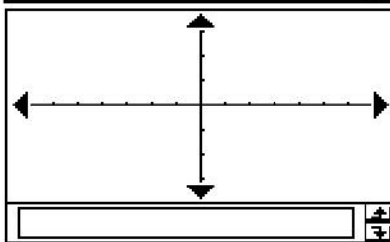
□



▼ Edit Action Interactive



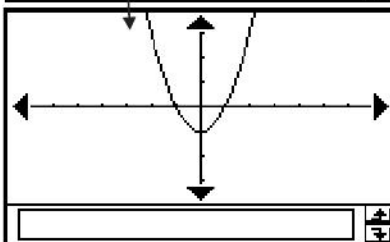
factor(x^2-1)
 $(x-1)\cdot(x+1)$



▼ Edit Zoom Analysis



factor(x^2-1)
 $(x-1)\cdot(x+1)$





▼ Edit Action Interactive

0.5 | /dx= | a=... | Y1:... |
3 | /dx=2 | b=... | Y2:... |

factor(x^2-1)
(x-1)·(x+1)

Sheet1 | Sheet2 | Sheet3 |

y1:
 y2:
 y3:
 y4:
 y5:
 y6:
 y7:
 y8:

▼ Edit Type GMem

y= y=

factor(x^2-1)
(x-1)·(x+1)

Sheet1 | Sheet2 | Sheet3 |

y1: x^2-1 [—]
 y2:
 y3:
 y4:
 y5:
 y6:
 y7:
 y8:



▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3 | ◀ ▶

$y_1 = x^2 - 1$ [—] ▲

$y_2 = 0$

$y_3 = 0$

$y_4 = 0$

$y_5 = 0$

$y_6 = 0$

$y_7 = 0$

$y_8 = 0$





▼ Edit Calc SetGraph

Icons:

	list1	list2	list3
1	1	4	
2	2	5	
3	3	6	

Calc

[4] =

▼ Edit Action Interactive

0.5 | | | | |

list1+list2⇒list3 (5,7,9)

Keyboard: mth abc cat 2D

1 2 3 4 5 6 7 8 9 0

q w e r t y u i o p

a s d f g h j k l ; \

z x c v b n m , . /

αβγ MATH SPACE SMBL EXE



▼ Edit Calc SetGraph

list1+list2→list3 (5,7,9)

	list1	list2	list3
1	1	4	5
2	2	5	7
3	3	6	9
4			
5			

Cal

[4]=

▼ Edit Action Interactive

list1+list2→list3 (5,7,9)

(12,24,36)→test (12,24,36)



▼ Edit Calc SetGraph

list1+list2⇒list3 (5,7,9)
 (12,24,36)⇒test (12,24,36)
 □

	list5	list6	
1			
2			
3			
4			
5			

Calc

[4]=

▼ Edit Calc SetGraph

	list5	list6	test
1			12
2			24
3			36
4			
5			

Calc

[1]= 12

mth abc cat 2D ✕ ↕ ↶
 1 2 3 4 5 6 7 8 9 0 - +
 q w e r t y u i o p \ /
 ~ a s d f g h j k l ; ' < >
 ↑ z x c v b n m , . /
 αβγ MATH SPACE SMBL EXE



▼ Edit Action Interactive

$x^2/5^2+y^2/2^2=1$

$\frac{x^2}{25}+\frac{y^2}{4}=1$

$x^2+y^2=1$

$x^2+y^2=1$

□

▼ File Edit View Draw

$x^2/5^2+y^2/2^2=1$

$\frac{x^2}{25}+\frac{y^2}{4}=1$

$x^2+y^2=1$

$x^2+y^2=1$

□



▼ Edit Action Interactive

0.5 | /dx | a=... | C | ▾ | ▶

1.88
2.5

R1g Standard Cplx Rad

▼ Edit Action Interactive

0.5 | /dx | a=... | C | ▾ | ▶

$x^2 + y^2 + 1x - 8.75 = 0$

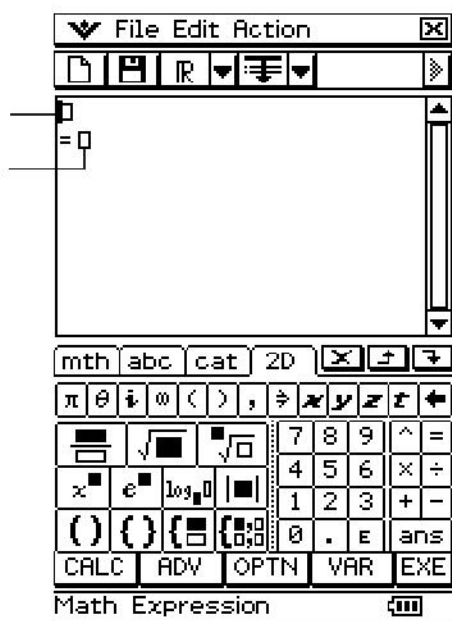
R1g Standard Cplx Rad

▼ Edit Action Interactive



0.5 | /dx | a=... | C | ▾ | ▶

$\begin{bmatrix} 0.59 & 0.85 \\ 0.85 & -0.9 \end{bmatrix} \times \begin{bmatrix} x \\ y \end{bmatrix} + \begin{bmatrix} -0.8 \\ 1.61 \end{bmatrix}$

R1g Standard Cplx Rad













File Edit Action

= 0

50
= 0



50
= 25×3


50
= 25×3

ERROR! X


Sorry, not equivalent



50
= 25 · 2
= 0



50
= 25 · 2
= 5 · 5 · 2
= 0



File Edit Action X


📁 📄 ℝ ⌵ ⌴ ⌵ ⌵

0
= 0

C
ℝ
ℝ>0


x^2+1
= 0

x^2+1
= $(x+i) \cdot (x-i)$
= 0






Probability [X]

 1 Die
 2 Dice +
 2 Dice *
 Container

Number of trials
Number of faces

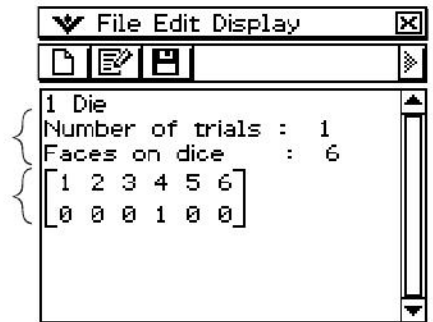
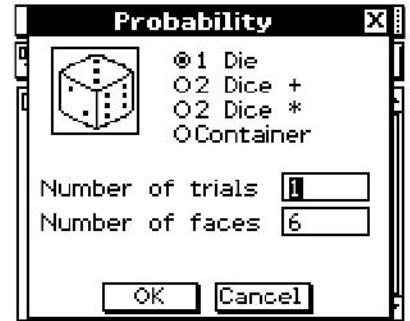
Probability [X]

 1 Die
 2 Dice +
 2 Dice *
 Container

Replace Yes No

A B C
D E F

Number of trials







```
File Edit Display [X]
[ ] [ ] [ ] [ ]
1 Die
Number of trials : 6
Faces on dice   : 6
1 2 3 4 5 6
1 1 1 1 2 0
```

```
File Edit Display [X]
[ ] [ ] [ ] [ ]
1 Die
Number of trials : 6
Faces on dice   : 6
{3,4,5,2,5,1}
```





Probability [X]

 1 Die
 2 Dice +
 2 Dice *
 Container

Number of trials:
Number of faces:

Probability [X]


 1 Die
 2 Dice +
 2 Dice *
 Container

Number of trials:
Number of faces:

2 Dice +
Number of trials : 50
Faces on dice : 6
[2 3 4 5 6 7 8 9 10 11 12]
[0 2 2 3 7 9 6 11 3 3 4]




Probability [X]

 1 Die
 2 Dice +
 2 Dice *
 Container

Number of trials:
Number of faces:

```
2 Dice *
Number of trials : 150
Faces on dice   : 6
[ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 ]
[ 3 10 7 17 5 13 0 6 9 7 0 13 0 0 7 3 0 11 0 6 0 0 0 0 10 1 0 0 0 0 18 0 0 0 0 0 4 ]
```

Probability [X]

 1 Die
 2 Dice +
 2 Dice *
 Container


Replace Yes No

A B C
D E F

Number of trials:



Probability [X]




 1 Die
 2 Dice +
 2 Dice *
 Container

Replace Yes No

A B C
D E F

Number of trials

File Edit Display [X]

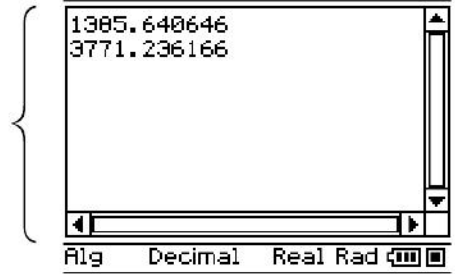
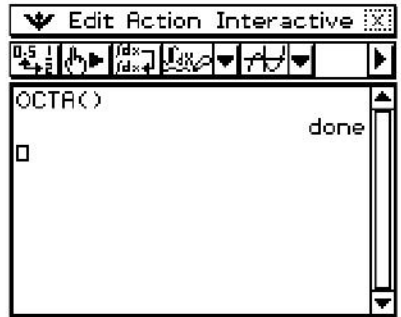
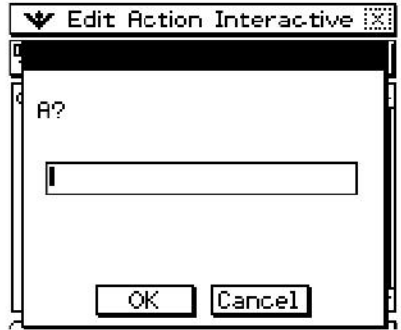
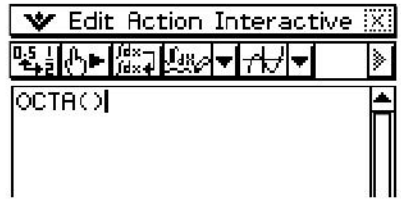
  

Container w/ replacement:

```
[ A B C ]  
[ 10 20 30 ]  
Number of trials : 50  
[ A B C ]  
[ 8 14 28 ]
```

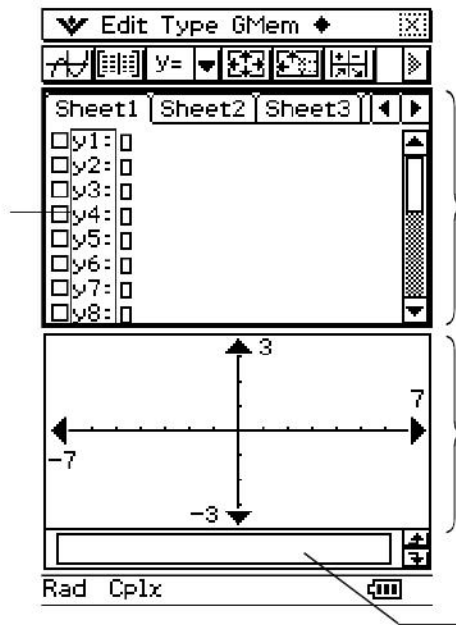


<p>▼ Edit Ctrl I/O Misc</p> <p>Addition N x,y Print x+y</p>	<p>▼ Edit Action Interactive</p> <p>Addition(1,2) done</p>	<p>▼ File Edit Insert Action</p> <p>main\Addition(2,3) done</p>																																																
<p>math abc cat 2D</p> <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>0</td><td>-</td><td>←</td></tr><tr><td>q</td><td>w</td><td>e</td><td>r</td><td>t</td><td>y</td><td>u</td><td>i</td><td>o</td><td>p</td><td>\</td><td></td></tr><tr><td>~</td><td>a</td><td>s</td><td>d</td><td>f</td><td>g</td><td>h</td><td>j</td><td>k</td><td>l</td><td>;</td><td>'</td></tr><tr><td>↑</td><td>z</td><td>x</td><td>c</td><td>v</td><td>b</td><td>n</td><td>m</td><td>,</td><td>.</td><td>/</td><td></td></tr></table> <p>αβγ MATH SPACE SMBL EXE</p> <p>Program Editor</p>	1	2	3	4	5	6	7	8	9	0	-	←	q	w	e	r	t	y	u	i	o	p	\		~	a	s	d	f	g	h	j	k	l	;	'	↑	z	x	c	v	b	n	m	,	.	/		<p>3</p> <p>Alg Decimal Real Rad</p>	<p>3 5</p> <p>Alg Standard Real Rad</p>
1	2	3	4	5	6	7	8	9	0	-	←																																							
q	w	e	r	t	y	u	i	o	p	\																																								
~	a	s	d	f	g	h	j	k	l	;	'																																							
↑	z	x	c	v	b	n	m	,	.	/																																								



3








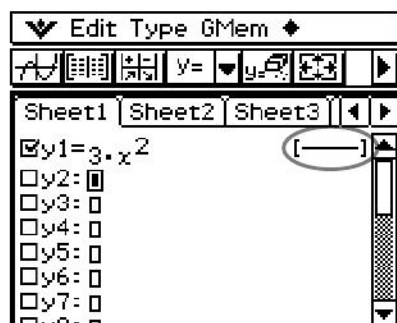
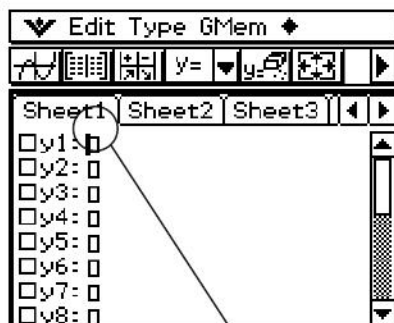
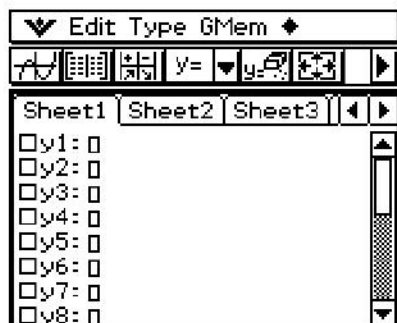


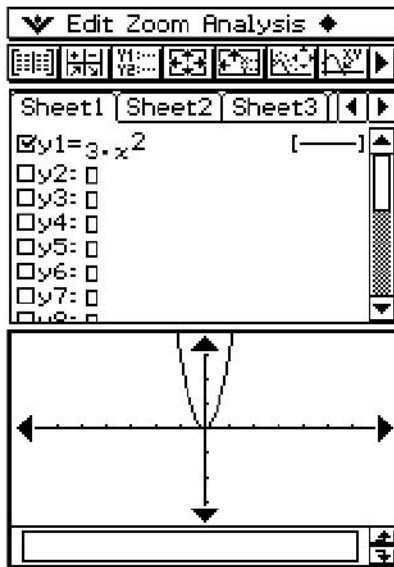




Rad Real 

| |







▼ Edit Type GMem ◆

Sheet1 | y= | x:= | Sheet3

<input checked="" type="checkbox"/> y1=3	$\Gamma=$	x=
<input type="checkbox"/> y2:	y>	x>
<input type="checkbox"/> y3:	y<	x<
<input type="checkbox"/> y4:	y \geq	x \geq
<input type="checkbox"/> y5:	y \leq	x \leq
<input type="checkbox"/> y6:		
<input type="checkbox"/> y7:		
<input type="checkbox"/> y8:		

▼ Edit Type GMem ◆

Sheet1 | y= | x:= | Sheet3

<input checked="" type="checkbox"/> y1=3	$\Gamma=$	x=
<input type="checkbox"/> y2:	y>	x>
<input type="checkbox"/> y3:	y<	x<
<input type="checkbox"/> y4:	y \geq	x \geq
<input type="checkbox"/> y5:	y \leq	x \leq
<input type="checkbox"/> y6:		
<input type="checkbox"/> y7:		
<input type="checkbox"/> y8:		

▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3

<input checked="" type="checkbox"/> y1=3 · x ²	
<input type="checkbox"/> r2:	
<input type="checkbox"/> r3:	
<input type="checkbox"/> r4:	
<input type="checkbox"/> r5:	
<input type="checkbox"/> r6:	
<input type="checkbox"/> r7:	
<input type="checkbox"/> r8:	



▼ Edit Zoom Analysis ◆

☰ ▶

Sheet1 | Sheet2 | Sheet3 | ◀ ▶

$y_1 = 3 \cdot x^2$ [—] ▲

$r_2 = 3 \cdot \sin(2 \cdot \theta)$ [—] ▲

$r_3 = 0$

$r_4 = 0$

$r_5 = 0$

$r_6 = 0$

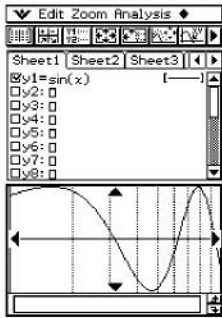
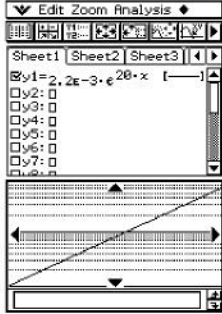
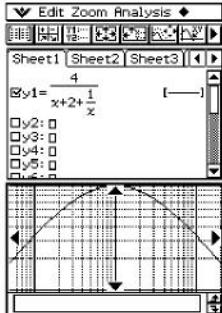
$r_7 = 0$

$r_8 = 0$

☰ ▶











Edit Zoom Analysis

Sheet1 | Sheet2 | Sheet3

$y1 = x^2$ [—] ▲

$r2 = \theta$ [—] []

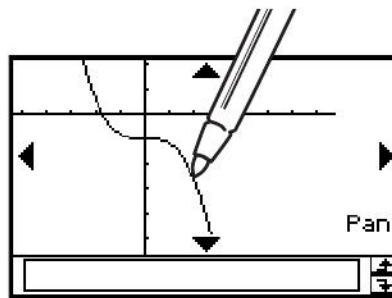
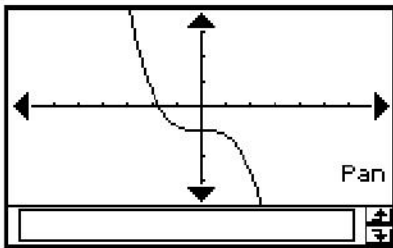
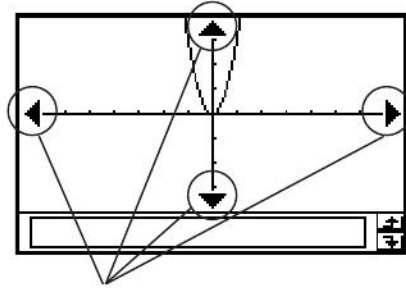
$x3 = \frac{y^2}{2} - 1$ [—] []

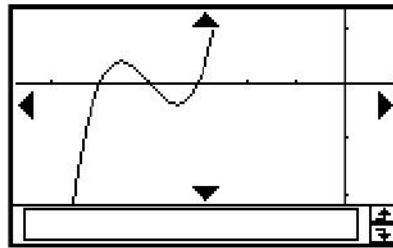
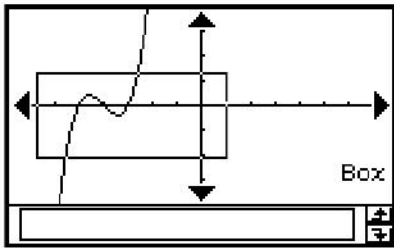
$xt4 = \cos(t)$ [—] []

$yt4 = \sin(t)$ [—] []

$xt5 = \pi$ [—] []

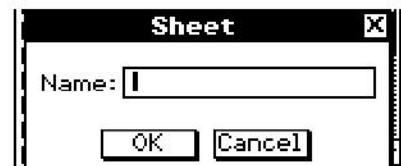
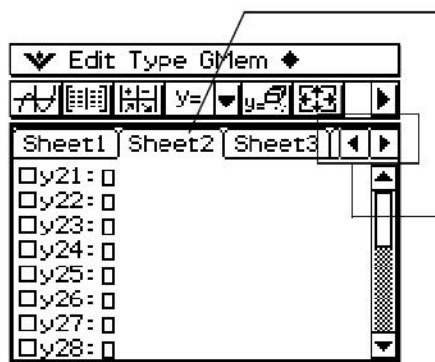
(4.2, 1.7)



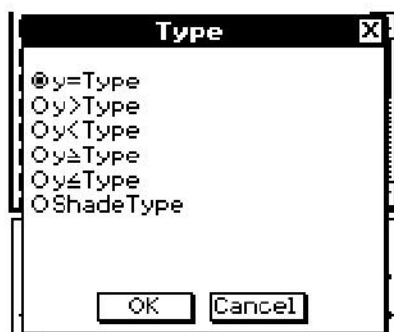






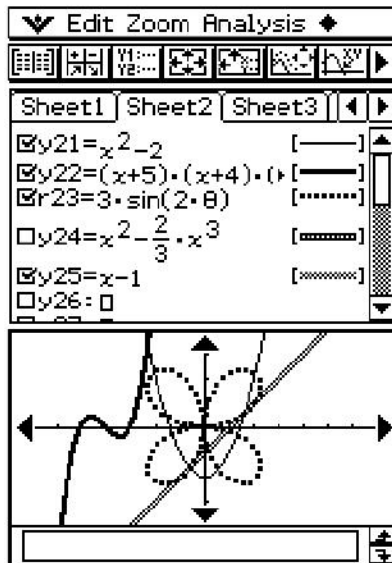














▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3

<input checked="" type="checkbox"/>	$y_{21} = x^2 - 2$	[———]
<input checked="" type="checkbox"/>	$y_{22} = (x+5) \cdot (x+4) \cdot (x+3)$	[———]
<input checked="" type="checkbox"/>	$r_{23} = 3 \cdot \sin(2 \cdot \theta)$	[.....]
<input type="checkbox"/>	$y_{24} = x^2 - \frac{2}{3} \cdot x^3$	[.....]
<input checked="" type="checkbox"/>	$y_{25} = x - 1$	[.....]

- [———]
- [———]
- [.....]
- [.....]
- [.....]

▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3

<input checked="" type="checkbox"/>	$y_{21} = x^2 - 2$	[———]
<input checked="" type="checkbox"/>	$y_{22} = (x+5) \cdot (x+4) \cdot (x+3)$	[———]
<input checked="" type="checkbox"/>	$r_{23} = 3 \cdot \sin(2 \cdot \theta)$	[.....]
<input type="checkbox"/>	$y_{24} = x^2 - \frac{2}{3} \cdot x^3$	[.....]
<input checked="" type="checkbox"/>	$y_{25} = x - 1$	[.....]

Graph Plot Type [X]

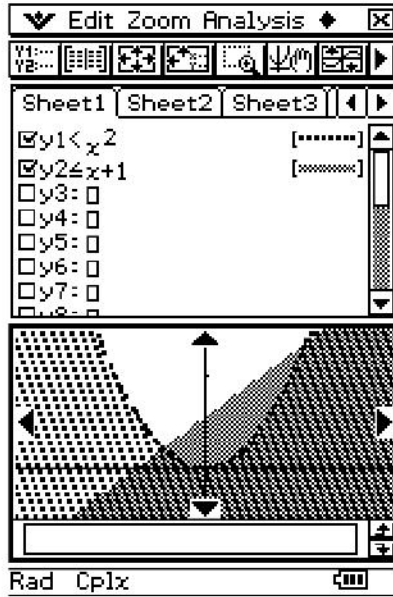
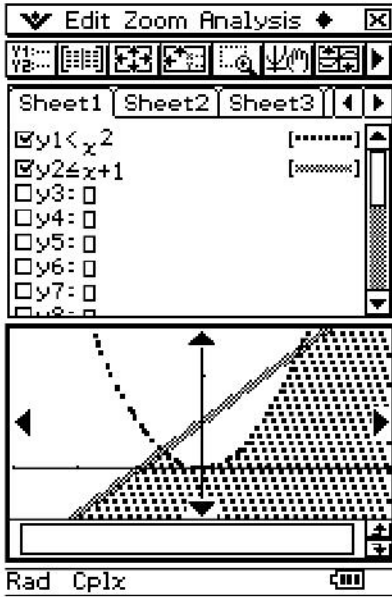
<input type="radio"/> Normal	[———]
<input type="radio"/> Thick	[———]
<input type="radio"/> Broken Thick	[.....]
<input checked="" type="radio"/> Square Plot Type	[.....]
<input type="radio"/> Cross Plot Type	[.....]
<input type="radio"/> Dot Plot Type	[.....]

OK Cancel



▼ Edit Type GMem ◀

		$y \leq$	Dynamic Graph
			Draw Shade
			Built-In
			Inequality Plot
			Sheet
Sheet For	<input type="radio"/> and		
	<input checked="" type="checkbox"/> or		
<input checked="" type="checkbox"/> $y \leq x + 1$			[.....]





▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3 |

y1 ◆ $\langle x^2 - 1, -x^2 + 1 \rangle$ [—]

y2: □

y3: □

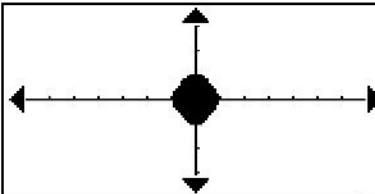
y4: □

y5: □

y6: □

y7: □

y8: □



low, upper } | L < x < R



Draw Shade [X]

Pattern [—] ▾

Lower Func []

Upper Func []

x min []

x max []

OK Cancel

Edit Zoom Analysis [X]

Sheet1 | Sheet2 | Sheet3

y1 $\diamond (-1, 1) | -1 < x <$ [—]

y2:

y3:

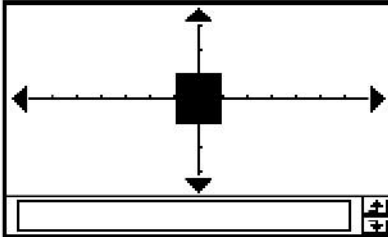
y4:

y5:

y6:

y7:

y8:



Rad Cplx []

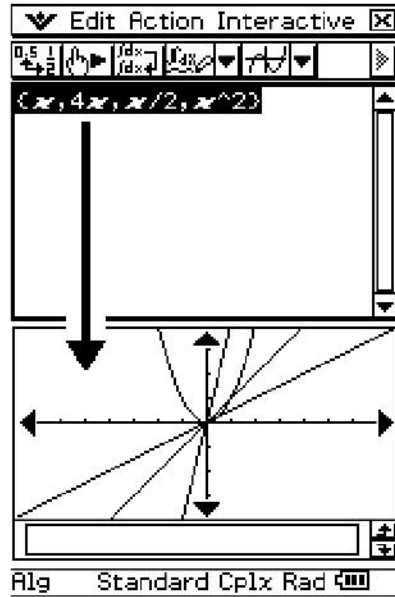
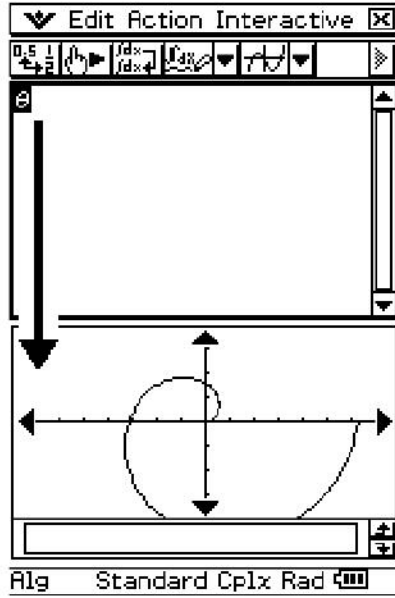






Table Input [X]

Start :

End :

Step :

	list1	list2	list3
1	-2		
2	1		
3	0		
4	1		
5	2		
Calc			
[	11=	-2	



Table Input [X]

Start :

End :

Step :

Edit T-Fact Graph [X]

Sheet1 | Sheet2 | Sheet3

$y_1 = 3 \cdot x^2 - 2$ [—]

y_2 :

y_3 :

y_4 :

y_5 :

y_6 :

y_7 :

y_8 :

x	y1
-3	25
-2	10
-1	1
0	-2
1	1

-3

Edit T-Fact Graph [X]

Sheet1 | Sheet2 | Sheet3

$y_1 = 3 \cdot x^2 - 2$ [—]

y_2 :

y_3 :

y_4 :

y_5 :

y_6 :

y_7 :

y_8 :

x	y1	y'1
-3	25	-18
-2	10	-11.99
-1	1	-6
0	-2	0
1	1	6

-3



▼ Edit T-Fact Graph ◆

y1=3·x²-2 [—] ▲

y2: 0

y3: 0

y4: 0

y5: 0

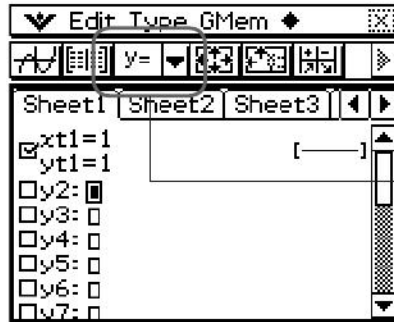
y6: 0

y7: 0

y8: 0

x	y1
1	1
2	10
3	25
4	46
5	73

1



x	y1
-3	25
-2	10
-1	1
0	-2
1	1

x	y1
-3	25
-2	10
-2.5	16.75
0	-2
1	1



x	y1
-3	25
-2	10
-1	1
0	-2
1	1

x	y1
-3	25
-1	1
0	-2
1	1
2	10

x	y1
-3	25
-2	10
-1	1
0	-2
1	1

x	y1
-3	25
-2	10
-1	1
0	-2



x	y1
-1	1
0	-2
1	1
2	10
3	25









x	y1
0	-2
1	1
2	10
3	25
3	25





▼ Edit T-Fact Graph ◆

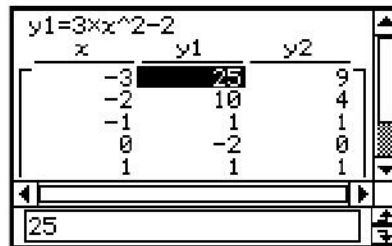
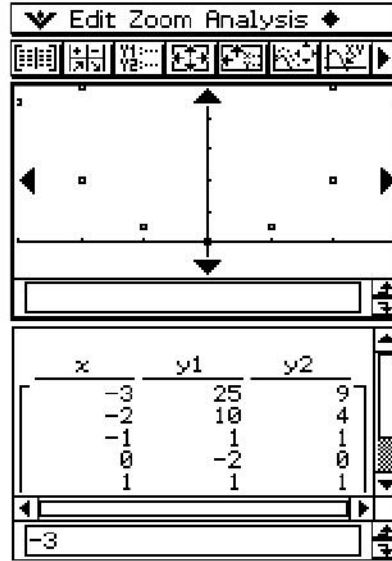
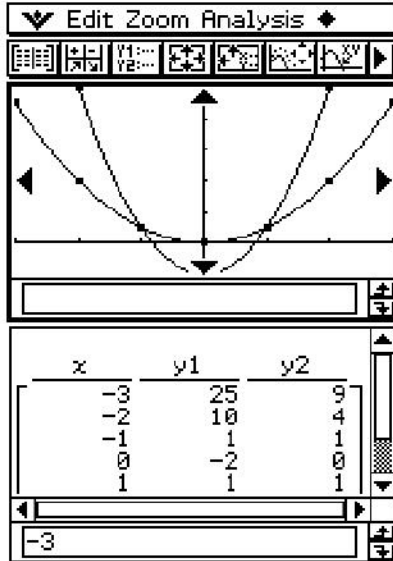
Sheet1 | Sheet2 | Sheet3 | ◀ ▶

$y1 = 3 \cdot x^2 - 2$ [—] ▲
 $y2 = x^2$ [—] ▲
 $y3 = \square$
 $y4 = \square$
 $y5 = \square$
 $y6 = \square$
 $y7 = \square$ ▼

x	y1	y2
-3	25	9
-2	10	4
-1	1	1
0	-2	0
1	1	1

◀ ▶

-3





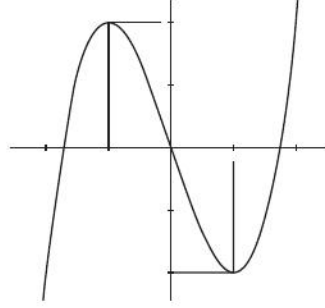
Store Data [X]

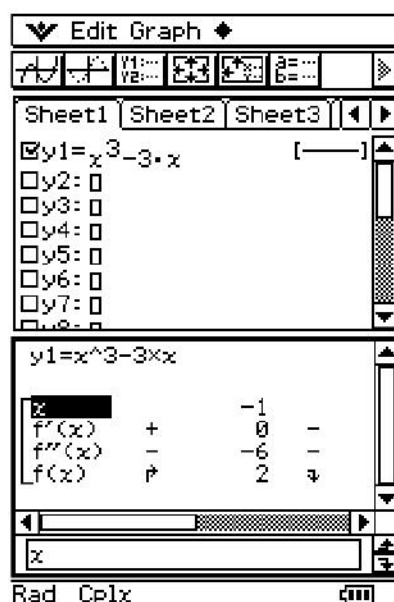
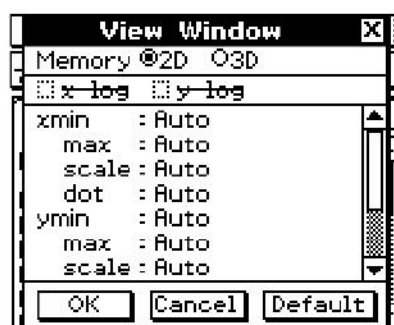
LIST

Folder: ▾

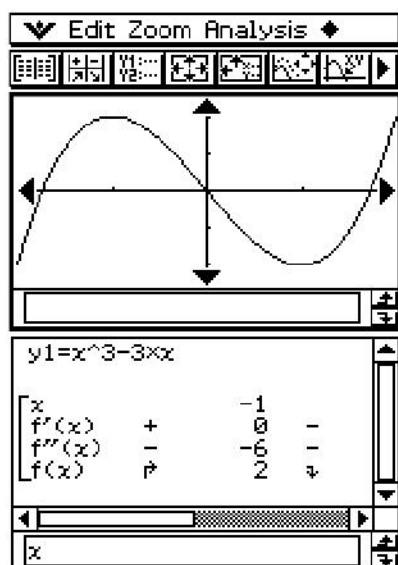
Name:







x		-1				
f'(x)	+	0	-	-3	-	1
f''(x)	-	-6	-	0	+	6
f(x)	↑	2	↓	0	4	-2





View Window [X]

Memory @2D @3D

x-log y-log

xmin : -0.5
 max : 2
 scale : 1
 dot : 0.01623376623
 ymin : -3.8
 max : 3.8
 scale : 1

OK Cancel Default

Edit Graph [v]

Sheet1 Sheet2 Sheet3

y1 = $x^3 - 3x$ [—]

y2: []
 y3: []
 y4: []
 y5: []
 y6: []
 y7: []
 y8: []

y1 = $x^3 - 3x$

x	-0.5		0
f'(x)	-2.2	-	-3
f''(x)	-3	-	0
f(x)	1.37	+	0

x



▼ Edit Calc SetGraph

View View Calc Calc Calc Calc Calc Calc Calc Calc Calc Calc

Sheet1 Sheet2 Sheet3

y1 = $x^3 - 3 \cdot x$ [—] ▲

y2: 0

y3: 0

y4: 0

y5: 0

y6: 0

y7: 0

y8: 0

	list1	list2	list3	list4
1				
2				
3				
4				
5				

Calc

[1] =



	list1	list2	list3	list4
2	-1			
3	0			
4	1			
5	2			
Calc				
[6] =				

▼ Edit Graph ◆

Sheet1 | Sheet2 | Sheet3

$y_1 = x^3 - 3x$ [—]

 $y_2 =$

 $y_3 =$

 $y_4 =$

 $y_5 =$

 $y_6 =$

 $y_7 =$

 $y_8 =$

$y_1 = x^3 - 3x$

x		-2	
$f'(x)$	+	9	+
$f''(x)$	-	-12	-
$f(x)$	∩	-2	∩

x

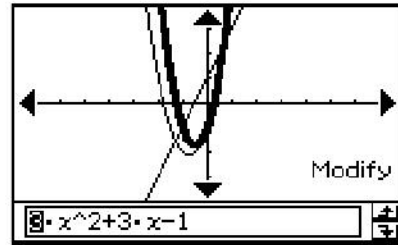
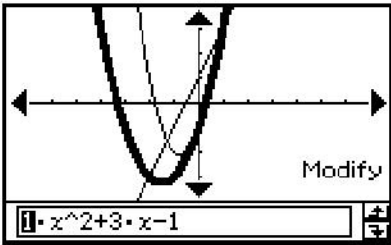
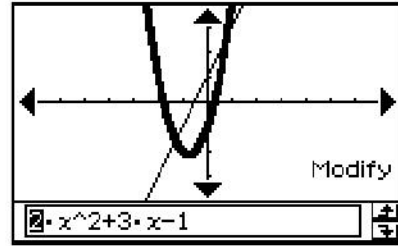
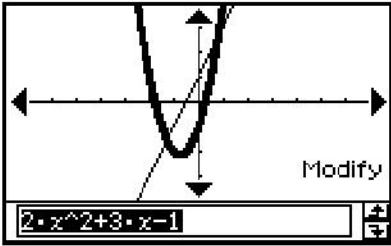


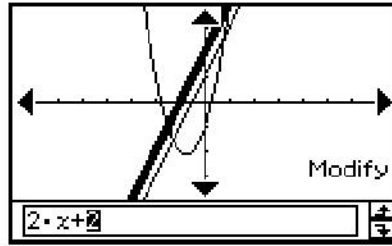
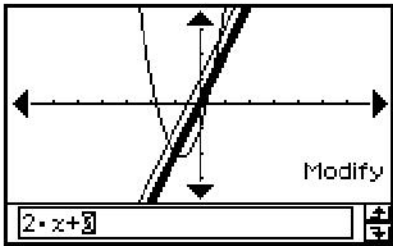
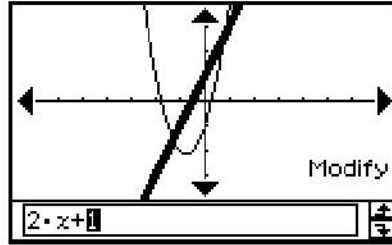
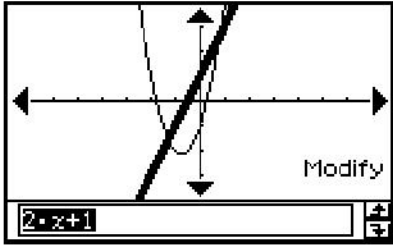
|

Modify ✕

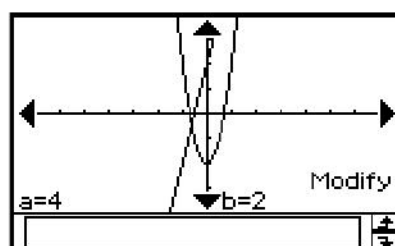
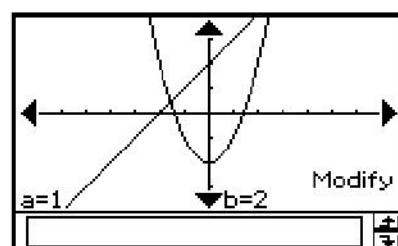
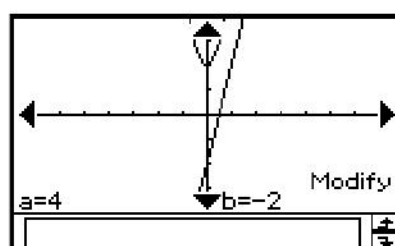
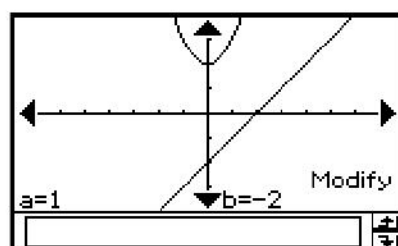
Step







ESC



ESC




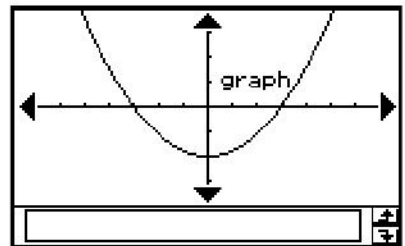
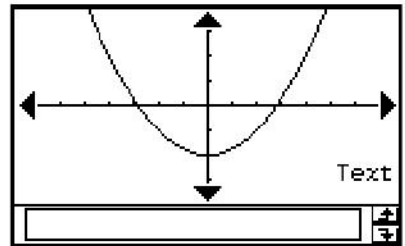


Dynamic Graph	
Modify	<input checked="" type="radio"/> Auto <input type="radio"/> Manual
Dynamic \leftarrow :	a
Start :	1
End :	5
Step :	1
Dynamic \rightarrow :	b
Start :	1
End :	5
Step :	1
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

ESC



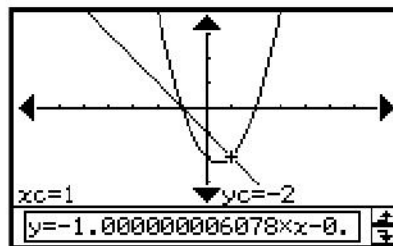
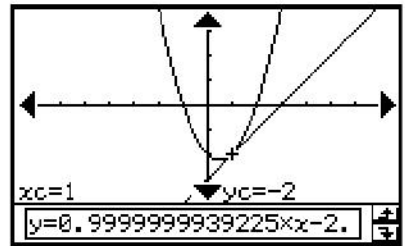


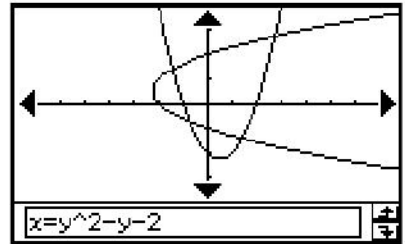




Enter Value ✕

x-value:



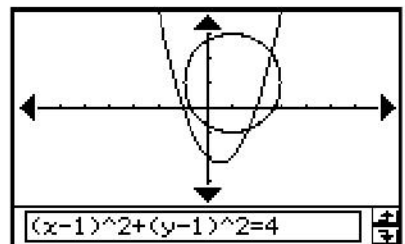


Enter Value [X]

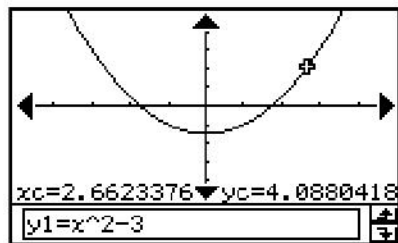
x-value:

y-value:

Radius:

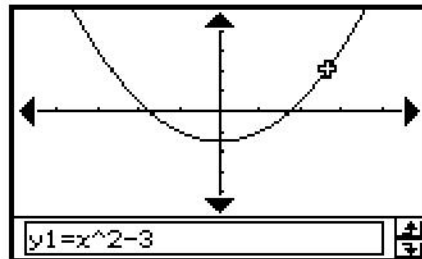
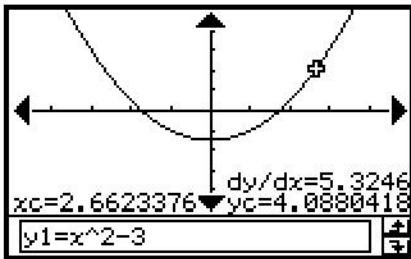


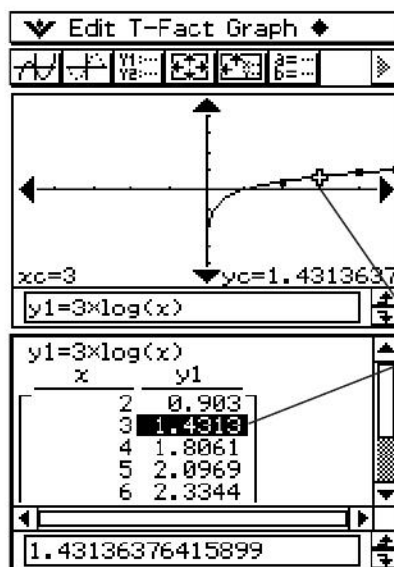




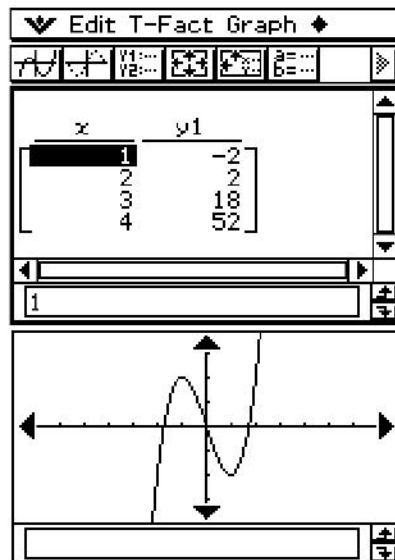
ESC

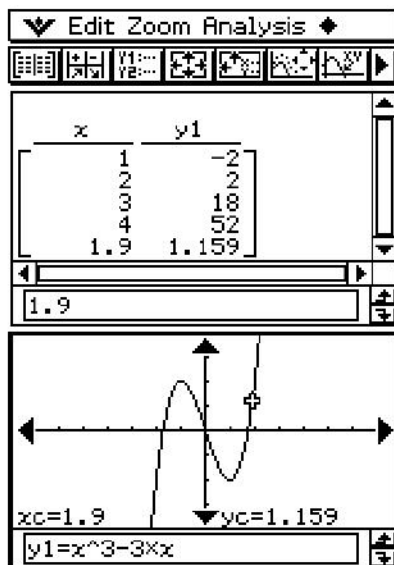
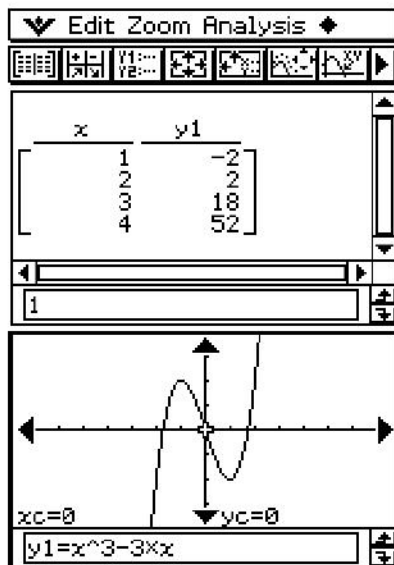


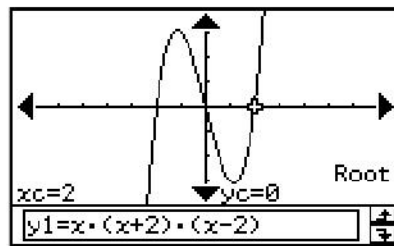
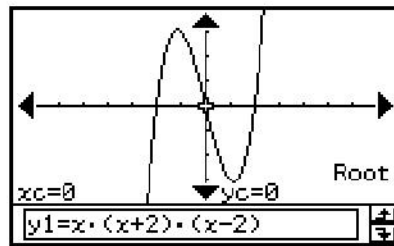
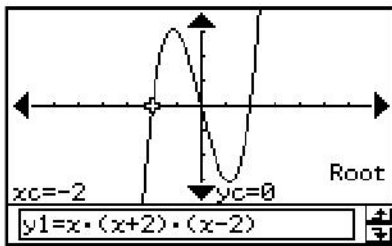


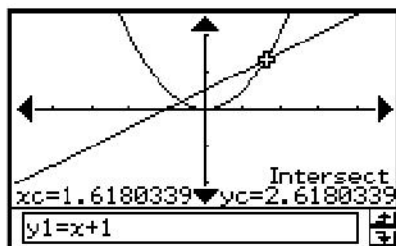
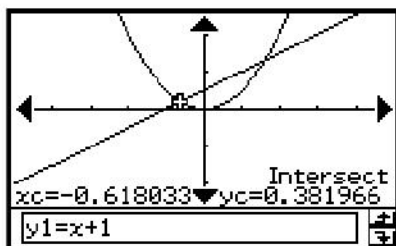


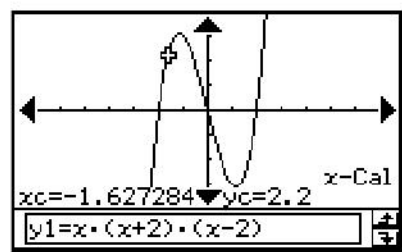
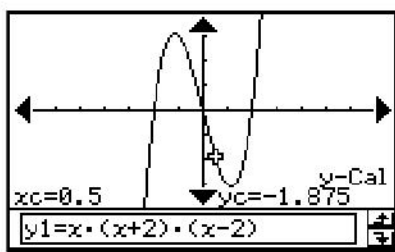
ESC









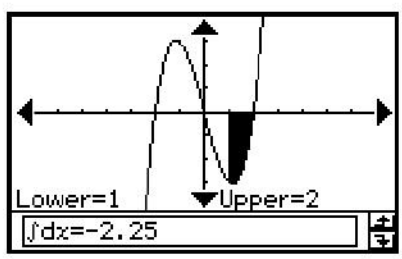


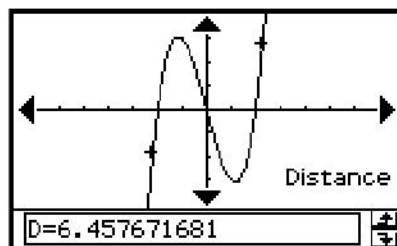


Enter Value [X]

Lower:

Upper:





Enter Value [X]

x1:

y1:

x2:

y2:



▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3

$y_1 = x^3 - 1$ [—] ▲

$y_2 = 0$

$y_3 = 0$

$y_4 = 0$

$y_5 = 0$

$y_6 = 0$

$y_7 = 0$

$y_8 = 0$

$x_c = 0$ Inflection
 $y_c = -1$

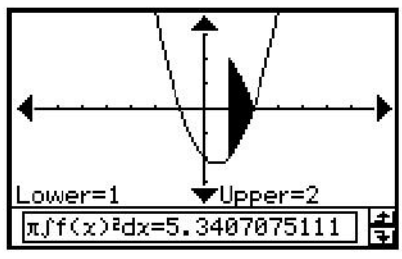
$y_1 = x^3 - 1$



Enter Value [X]

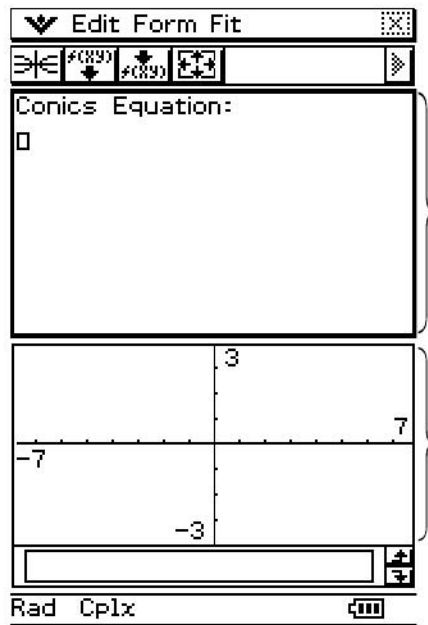
Lower:

Upper:



4














Rad Real 



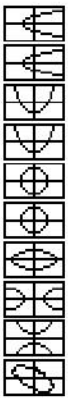
<input type="radio"/> $X=A(Y-K)^2+H$		
<input type="radio"/> $X=AY^2+BY+C$		
<input type="radio"/> $Y=A(X-H)^2+K$		
<input type="radio"/> $Y=AX^2+BX+C$		
<input type="radio"/> $(X-H)^2+(Y-K)^2=R^2$		
<input type="radio"/> $AX^2+AY^2+BX+CY+D=0$		
<input type="radio"/> $\frac{(X-H)^2}{A^2} + \frac{(Y-K)^2}{B^2} = 1$		
<input type="radio"/> $\frac{(X-H)^2}{A^2} - \frac{(Y-K)^2}{B^2} = 1$		
<input type="radio"/> $\frac{(Y-K)^2}{A^2} - \frac{(X-H)^2}{B^2} = 1$		
<input type="radio"/> $AX^2+BCY+CY^2+DX+EY+F=0$		



Select Conics Form [X]

- $X=A(Y-K)^2+H$
- $X=AY^2+BY+C$
- $Y=A(X-H)^2+K$
- $Y=AX^2+BX+C$
- $(X-H)^2+(Y-K)^2=R^2$
- $AX^2+AY^2+BX+CY+D=0$
- $\frac{(X-H)^2}{A^2} + \frac{(Y-K)^2}{B^2} = 1$
- $\frac{(X-H)^2}{A^2} - \frac{(Y-K)^2}{B^2} = 1$
- $\frac{(Y-K)^2}{A^2} - \frac{(X-H)^2}{B^2} = 1$
- $AX^2+BX^2+CY^2+DX+EY+F=0$

OK Cancel

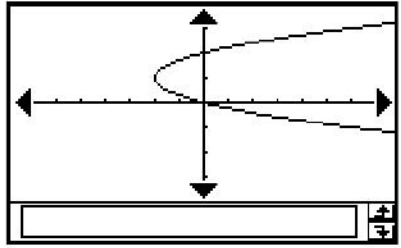


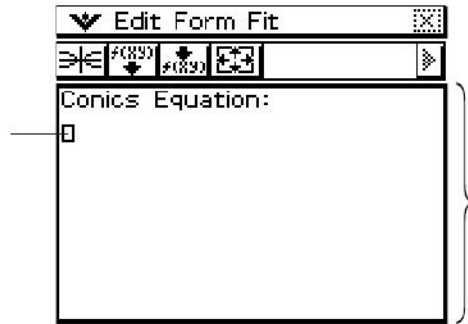
Edit Form Fit

Conics Equation:
 $x=A \cdot (y-K)^2+H$

Edit Form Fit

Conics Equation:
 $x=2 \cdot (y-1)^2-4$





Conics Equation:








$$\frac{(x-1)^2}{2^2} + (y-2)^2 = \frac{x^2}{4}$$

Conics Equation:

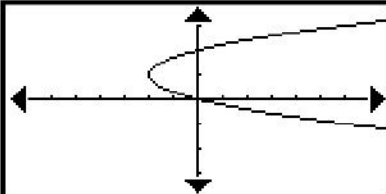
$$x = 2 \cdot y^2 - 8 \cdot y + \frac{17}{2}$$





▼ Edit Zoom Analysis ◆

f(x,y)       







Conics Equation:
 $x=2\cdot(y-1)^2-2$



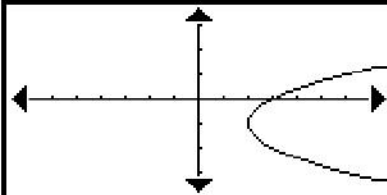
 





▼ Edit Zoom Analysis ◆

f(x)      

Conics Equation:
 $x = 1 \cdot y^2 + 2 \cdot y + 3$












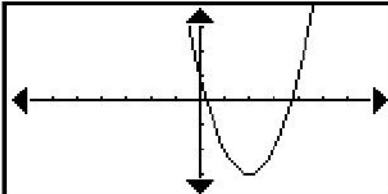






▼ Edit Zoom Analysis ◆

f(x)         








Conics Equation:
 $y = 1 \cdot (x - 2)^2 - 3$



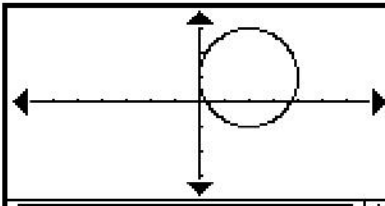
 




▼ Edit Zoom Analysis ◆

f(w)       

Conics Equation:
 $(x-2)^2+(y-1)^2=2^2$







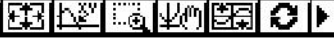
▼ Edit Zoom Analysis ◆

f(x,y)

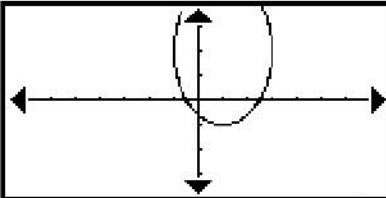
Conics Equation:
 $1 \cdot x^2 + 1 \cdot y^2 + 4 \cdot x - 6 \cdot y + 9 = 0$




▼ Edit Zoom Analysis ◆

f(x,y) 

Conics Equation:







$$\frac{(x-1)^2}{2^2} + \frac{(y-2)^2}{3^2} = 1$$




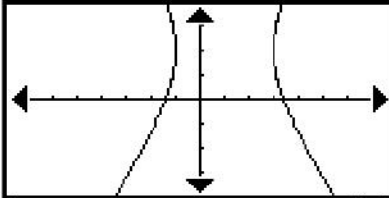






▼ Edit Zoom Analysis ◆

f(x,y)      







Conics Equation:
$$\frac{(x-1)^2}{2^2} - \frac{(y-2)^2}{3^2} = 1$$



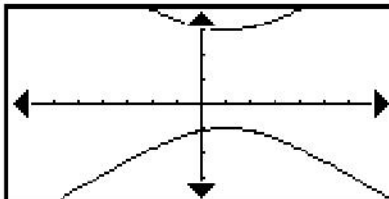
 





▼ Edit Zoom Analysis ◆

f(x,y)      







Conics Equation:
$$\frac{(y-1)^2}{2^2} - \frac{(x-1)^2}{3^2} = 1$$



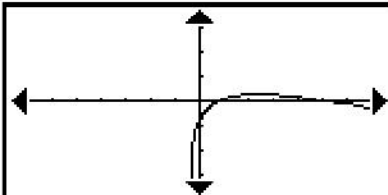
 





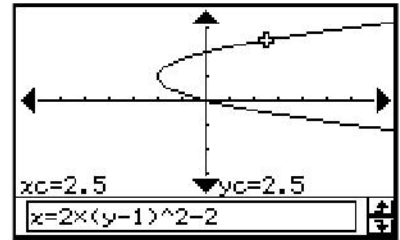
▼ Edit Zoom Analysis ◆

f(x,y)      

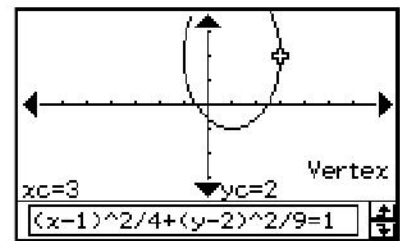
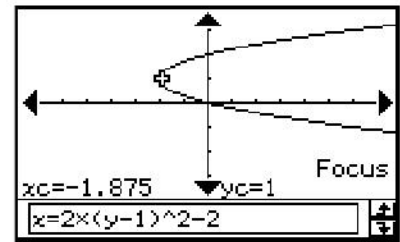
Conics Equation:
 $x^2 + 4 \cdot x \cdot y + 1 \cdot y^2 - 6 \cdot x + 6 \cdot y + 4 = 0$

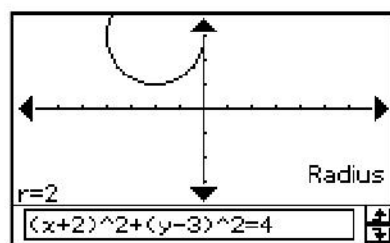
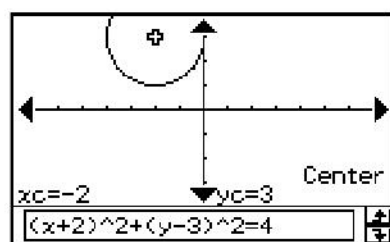
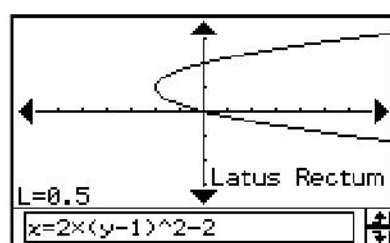
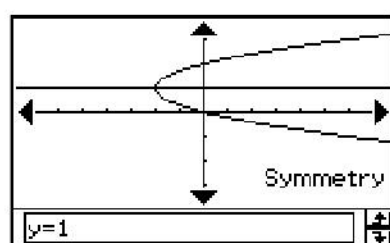
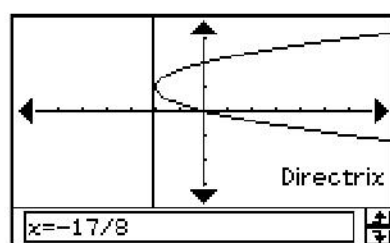


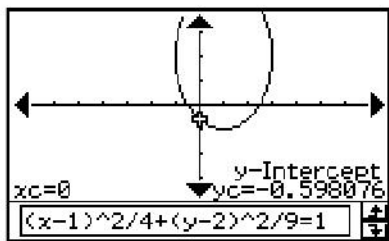
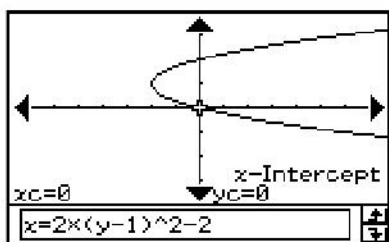
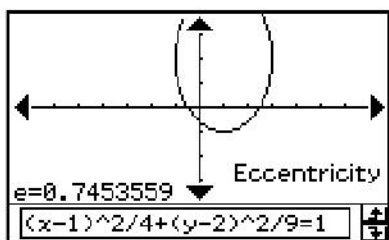
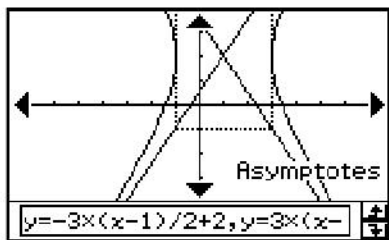
 



ESC



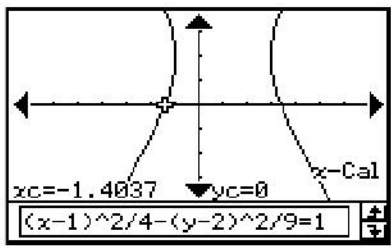






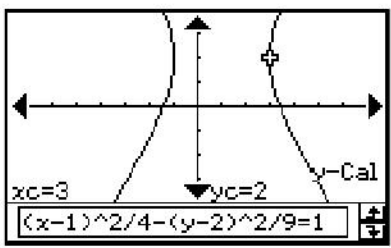
Enter Value [X]

y-value:



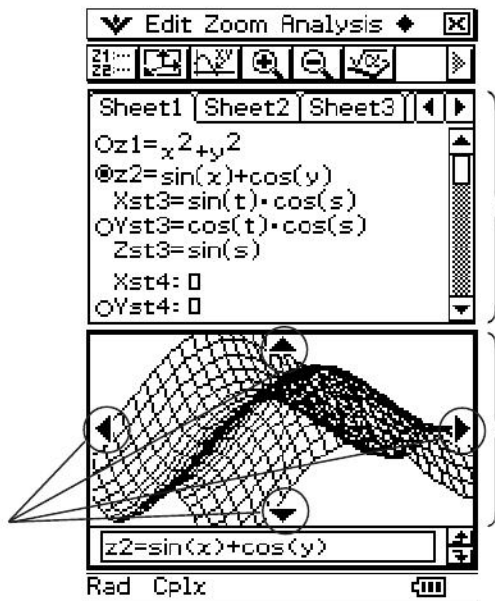
Enter Value [X]

x-value:



5







	$z =$	
	x_{st}	
	s	
	t	



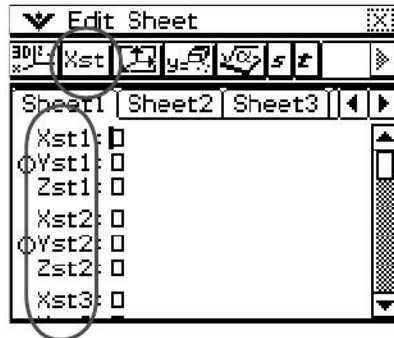
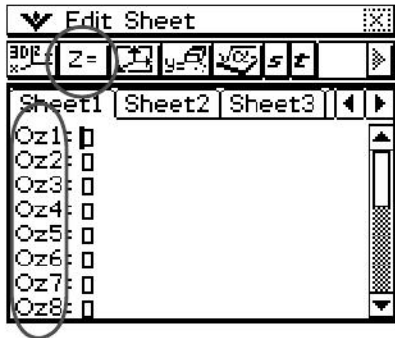




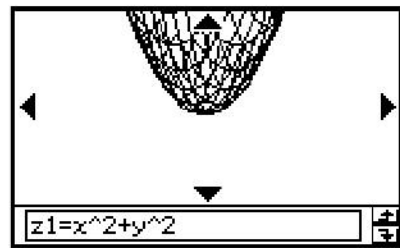
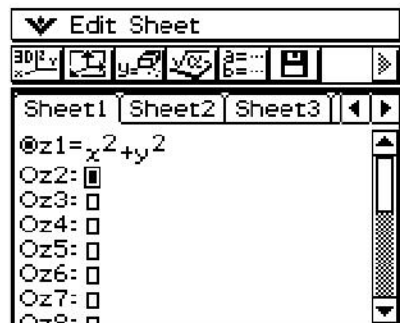
Rad Real 

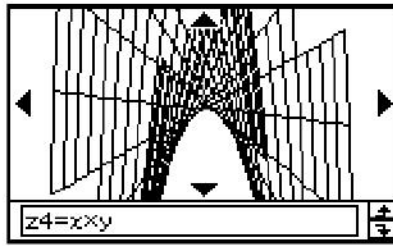
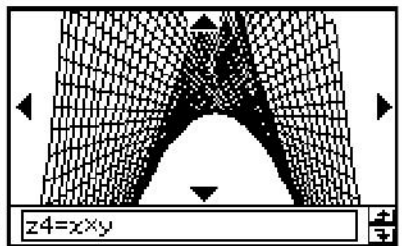
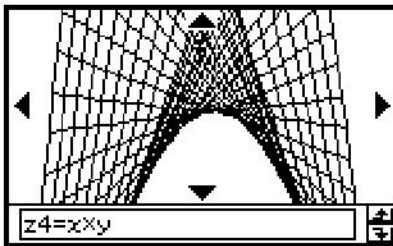
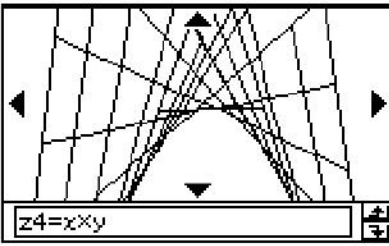
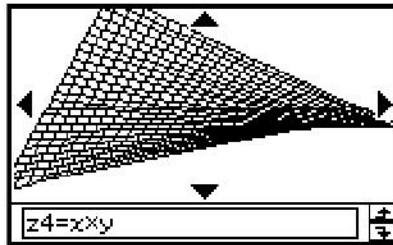






●







▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3 | ◀ ▶

Oz1= $x \cdot y$

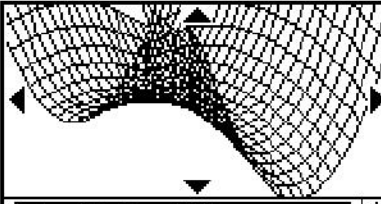
● Oz2= $\frac{x^2}{2} - \frac{y^2}{8}$

Oz3:

Oz4:

Oz5:

Oz6:



$z = x^2/2 - y^2/8$

Z=



▼ Edit Zoom Analysis ◀ ☒

☰ ▶

Sheet1 | Sheet2 | Sheet3 | ◀ ▶

Xst1=sin(t)·cos(s)
● Yst1=cos(t)·cos(s)
Zst1=sin(s)
Xst2: □
○ Yst2: □
Zst2: □
Xst3: □

Xst1=sin(t)·cos(s)

Rad Cplx

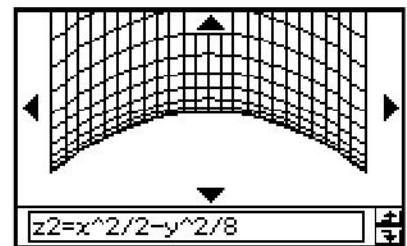


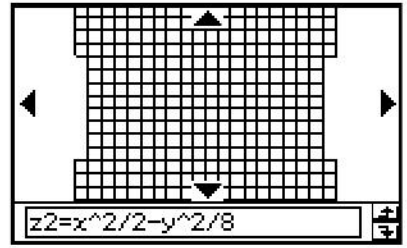
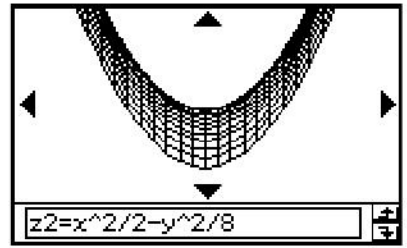
○

●

Sheet1	Sheet2	Sheet3	◀	▶
○z1=x+y				
○z2=x ² +y ²				
●z3=sin(x)+cos(y)				
○z4: □				
○z5: □				
○z6: □				
○z7: □				
○z8: □				



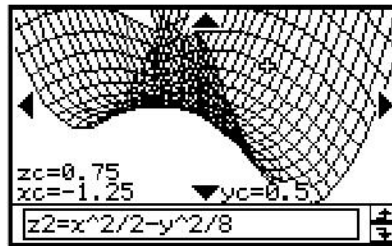






ESC





ESC



▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3 | ◀ ▶

Oz1= $x \cdot y$


Oz2= $\frac{x^2}{2} - \frac{y^2}{8}$

@z3= $x^2 + y^2$

Oz4: □

Oz5: □

Oz6: □



zc=8 z-Cal

xc=2 ▼yc=2

z3= $x^2 + y^2$

ESC



File Edit Insert Action

3D Graph Example

$2x^2+3y^2+4z=0$

3D View

$z = (-3/4)x^2 + (-1/2)x^2$

Alg Standard Real Rad



6





The screenshot shows the 'Edit Graph' window with the following content:

Edit Graph

Recursive Explicit

$a_{n+1} = 2 \cdot a_n$
 $a_1 = 2.5$

$b_{n+1} = 0$
 $b_1 = 0$

$c_{n+1} = 0$
 $c_1 = 0$

$a_{n+1} = 2 \cdot a_n$

n	a_n	Quot
1	2.5	Undef..
2	10	2
3	20	2
4	40	2
5	80	2




5


Rad Cplx


















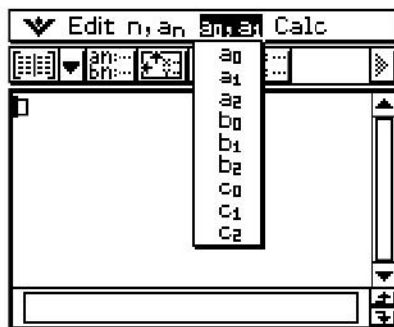
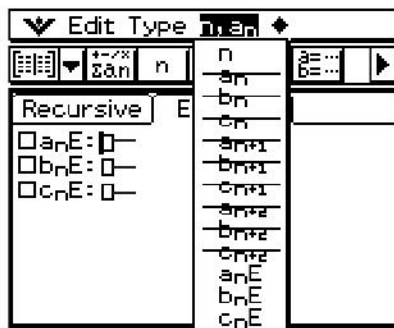
Input the "Σ" function	Σ



Rad Real









▼ Edit Graph ◆

Recursive Explicit

$a_{n+2} = a_{n+1} + a_n$
 $a_1 = 1$
 $a_2 = 1$

$b_{n+2} = 0$
 $b_1 = 0$
 $b_2 = 0$

$c_{n+2} = 0$
 $c_1 = 0$

n	a_n	Sum
1	1	Und...
2	1	2
3	2	4
4	3	7
5	5	12

1



▼ Edit Graph ◆

Recursive Explicit

$a_n E = n^2 - 2$

$b_n E = 0$

$c_n E = 0$

n	$a_n E$
1	-1
2	2
3	7
4	14
5	23

1

▼ Edit Graph ◆

Recursive Explicit

$a_{n+1} = a_n + 3$
 $a_1 = 1$

$b_{n+1} = 0$
 $b_1 = 0$

$c_{n+1} = 0$
 $c_1 = 0$

n	a_n	Dfrnce
1	1	Und...
2	4	3
3	7	3
4	10	3
5	13	3

1



▼ Edit Graph ◆

Recursive Explicit

$a_{n+1} = 3 \cdot a_n$
 $a_1 = 2$

$b_{n+1} = 0$
 $b_1 = 0$

$c_{n+1} = 0$
 $c_1 = 0$

n	a_n	Quot
1	2	Und...
2	6	3
3	18	3
4	54	3
5	162	3

1

▼ Edit Graph ◆

Recursive Explicit

$a_{n+1} = 2 \cdot a_n + 2$
 $a_1 = 3$

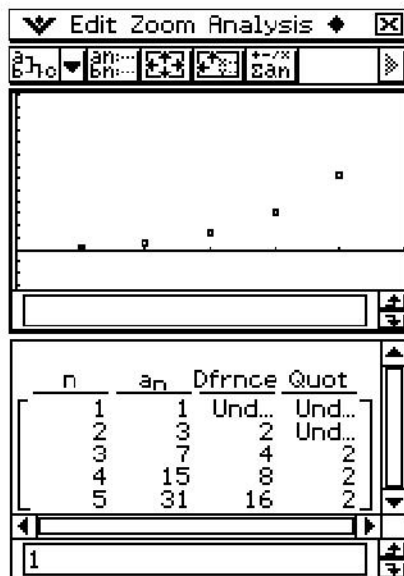
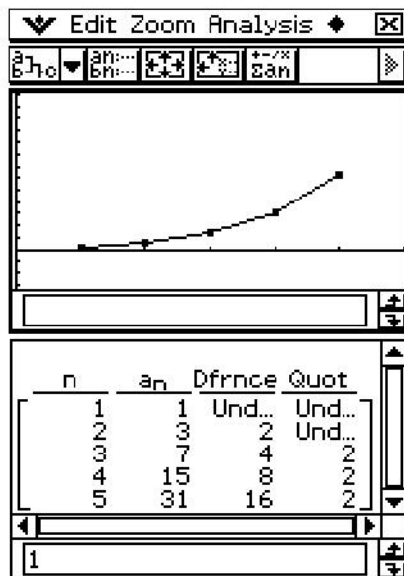
$b_{n+1} = 0$
 $b_1 = 0$

$c_{n+1} = 0$
 $c_1 = 0$

n	a_n	Dfrnce	Quot
1	3	Und...	Und...
2	8	5	Und...
3	18	10	2
4	38	20	2
5	78	40	2

1





▼ Edit n, a_n, a_0, a_1 Calc

$a_{n+1} =$
 $a_0 = 0$
 $b_{n+1} =$
 $b_0 = 0$
 $c_{n+1} =$
 $c_0 = 0$

Recursive | Explicit

$rSolve(a_{n+1}=a_n+2, a_1=1)$
 $(a_n=2 \cdot (n-1)+1)$

$$rSolve(a_{n+1}=3a_n-1, a_1=1)$$

$$\left\{ a_n = \frac{3^{n-1}}{2} + \frac{1}{2} \right\}$$

$$rSolve(a_{n+2}-4a_{n+1}+4a_n=0, a_1=1, a_2=3)$$

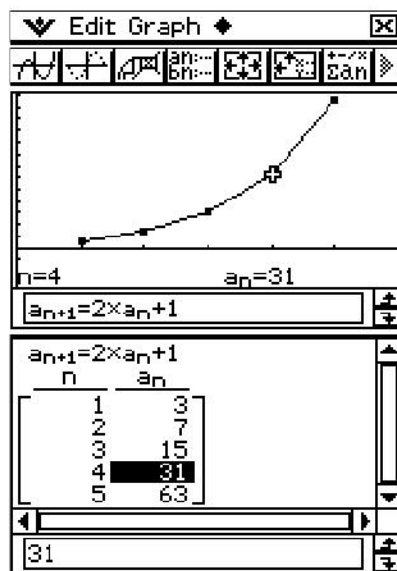
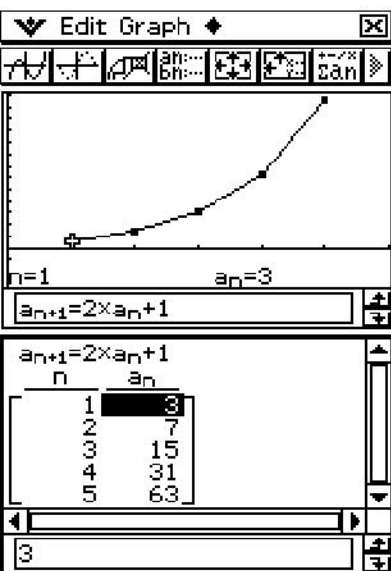
$$\left\{ a_n = \frac{2^n \cdot (n+1)}{4} \right\}$$

$$\text{rSolve}((a_{n+1}=3a_n+b_n, b_{n+1}=a_n+3b_n), (a_1=2, b_1=1))$$
$$\left\{ a_n = \frac{3 \cdot 4^{n-1} + 2^{n-1}}{2}, b_n = \frac{3 \cdot 4^{n-1} - 2^{n-1}}{2} \right\}$$

▼ Edit n, a_n, a₀, a₁ Calc

a_nE:
 b_nE:
 c_nE:

10
 $\sum_{n=2} (n^2+2n-1)$
483





—



▼ Edit Zoom Analysis ◀ ☒

☐ a_{n+1} b_{n+1} c_{n+1} a_n b_n c_n ▶

Recursive | **Explicit**

$a_{n+1} = \frac{a_n^2}{2} - 1$
 $a_1 = 0.5$

$b_{n+1} = 0$
 $b_1 = 0$

$c_{n+1} = 0$
 $c_1 = 0$

$x_c = -0.672322$ $y_c = -0.773991$

$a_{n+1} = a_n^2 / 2 - 1$ ⏪ ⏩





▼ Edit Calc SetGraph

	list1	list2	list3
1	56	1	107
2	37	2	75
3	21	4	122
4	69	8	87
5	40	16	298
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Calc

[6] = 56

Rad Auto Standard





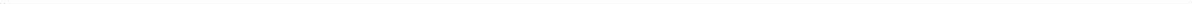




Rad Auto Standard 













	list1	list2	list3	
1	130	33333		
2	171	"abcd"		
3	159	Undef...		
4	144	999		
5	66	>		
Cal				
E-51=2d				







	list1	list2	list3	
1	1			▲
2	2			
3	3			
4	3			
5	4			
Cal▶	"(1,2..."			▼
◀				
▶				
Cal=	(1,2,3)			



	list1	list2	list3	
1	1			▲
2	2			
3	3			
4	3			
5	4			
Cal▶	"(1,2..."			▼
◀				
▶				
Cal=	(1,2,3)			

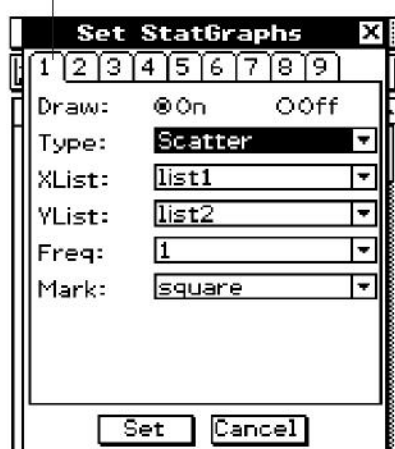
	list1	list2	list3	
1	1	2		▲
2	2	4		
3	3	6		
4	3			
5	4			
Cal▶	"(1,2..."	"list1..."		▼
◀				
▶				
Cal=	list1×2			











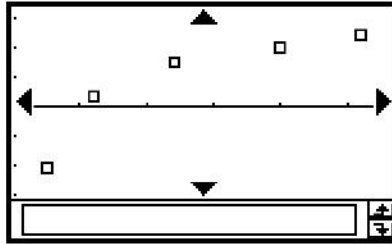


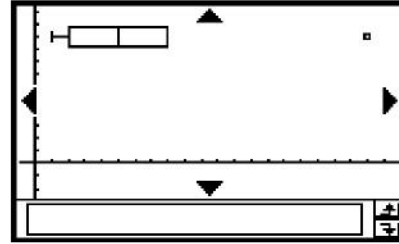
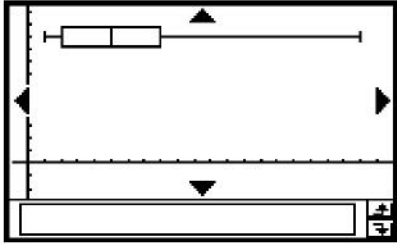




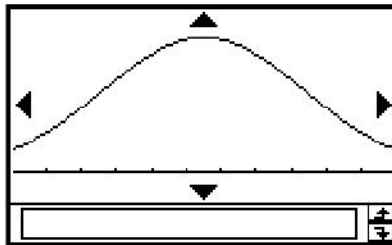


	□
	×
	■
	.





$$\sqrt{\quad} \quad \frac{\quad}{\quad}$$

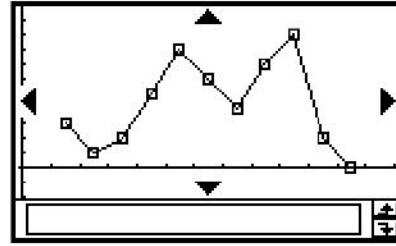




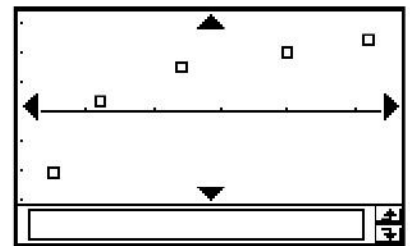
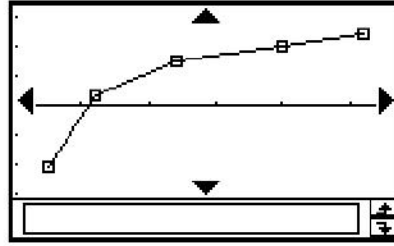
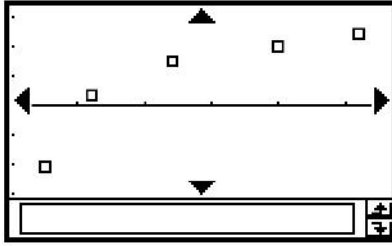
Set Interval [X]

HStart:

HStep:









Set Calculation [X]

Logarithmic Reg

XList: list1

YList: list2

Freq: 1

Copy Formula: Off

Residual Calc: Off

OK Cancel

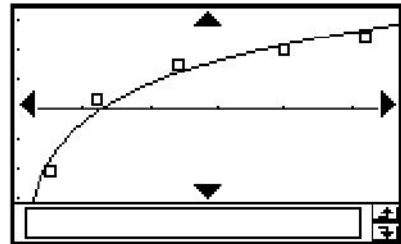
Stat Calculation [X]

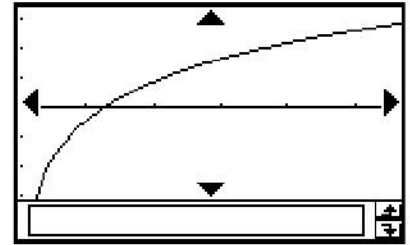
Logarithmic Reg

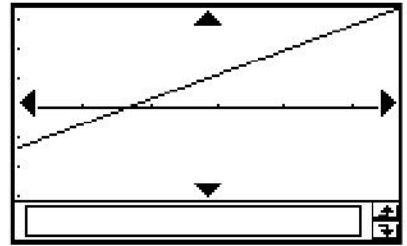
$y = a + b \cdot \ln(x)$

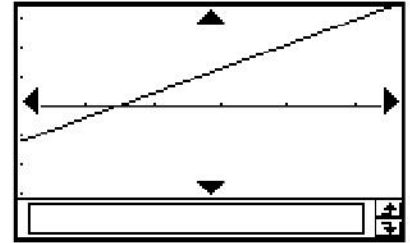
a	= -0.454684
b	= 1.8747585
r	= 0.9821627
r ²	= 0.9646436
MSe	= 0.1549553

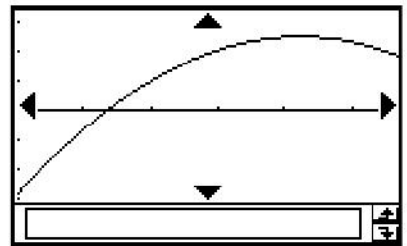
OK





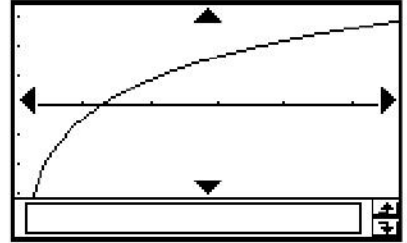


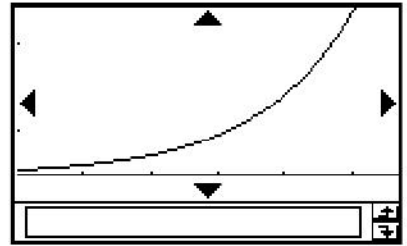


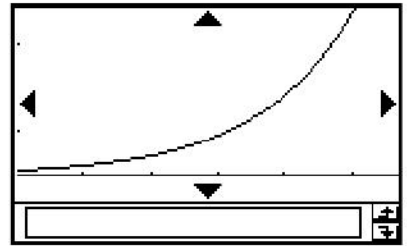


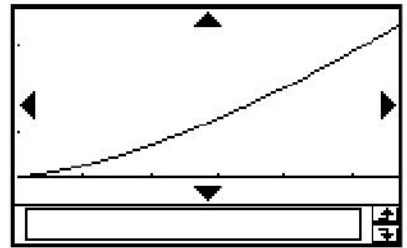


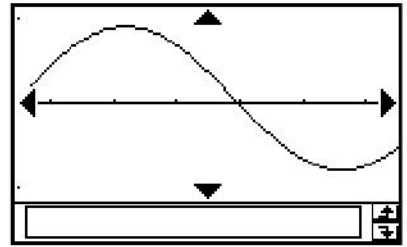


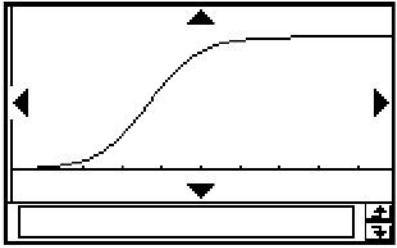




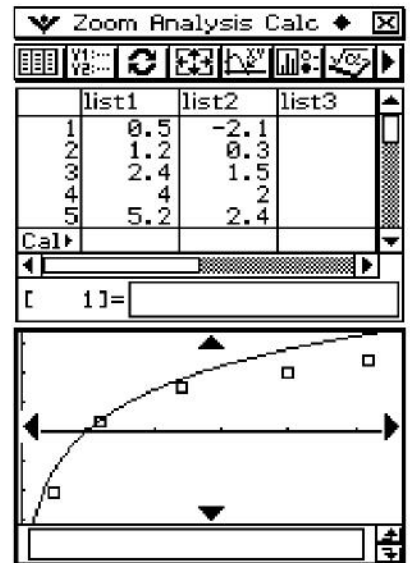








_____ (_____)









Stat Calculation	
One-Variable	
\bar{x}	=2.66
Σx	=13.3
Σx^2	=50.49
σ_x	=1.7385051
s_x	=1.9437078
n	=5
minX	=0.5
Q_1	=0.85

OK





Two-Variable	
\bar{x}	=2.66
$\sum x$	=13.3
$\sum x^2$	=50.49
σ_x	=1.7385051
s_x	=1.9437078
n	=5
\bar{y}	=0.82
$\sum y$	=4.1

OK





|





▼ Edit Calc SetGraph			
[Icons]			
	list1	list2	>
1	0.5	2.1	
2	1.2	0.3	
3	2.4	1.5	
4	4	2	
5	5.2	1	
Calc			▼
← [Shaded Area] →			
list=	residual		





▼

▶

Type

List Variable

Tests a single sample mean against the known mean of the null hypothesis when the population standard deviation is known.

Help



```
ztestone  N
OneSampleZTest  "*",0,3,24
.5,48
DispStat
|
```

Folder:
Name:

Status

Done

One-Sample ZTest
Data=Variable
 $\mu \neq 0$
z = 56.580326
prob = 0
 \bar{x} = 24.5
n = 48





```
hyp      N
(1,1,1,1,2,2,2,2)⇒list1
(1,1,2,2,1,1,2,2)⇒list2
(113,116,139,132,133,131,
126,122)⇒list3
TwoWayANOVA list1,list2,lis
t3
DispStat
|
```



Folder: main
Name: hyp

Status

Done

OK

Two-Way ANOVA

A	df = 1
A	MS = 18
A	SS = 18
	F = 1.8461538
	p = 0.2458019
B	df = 1











$$\frac{\mu}{\frac{\sigma}{\sqrt{}}}$$

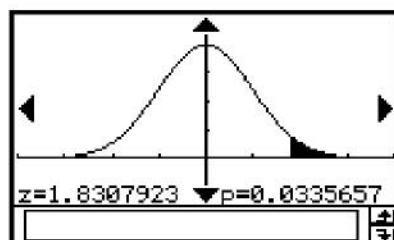
Type

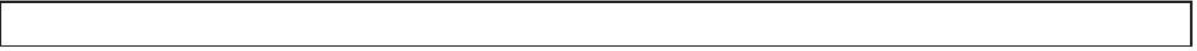
OList Variable

Help

μ condition
 μ_0
 σ
 \bar{x}
n

Help



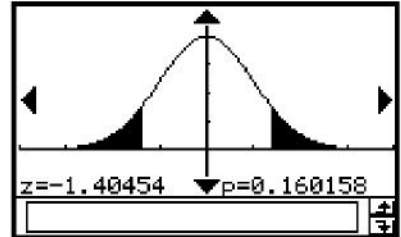


$$\sqrt{\sigma \quad \sigma}$$





μ_1 condition	\neq
σ_1	23.16
σ_2	18.51
\bar{x}_1	65.43
n_1	40
\bar{x}_2	71.87
n_2	45



--

$$\sqrt{\frac{\sigma^2}{n}}$$



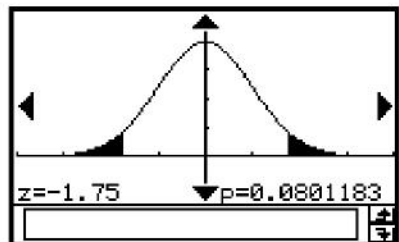
Prop cond. \neq

P0 0.2

x 13

n 100

<< Back Help Next >>

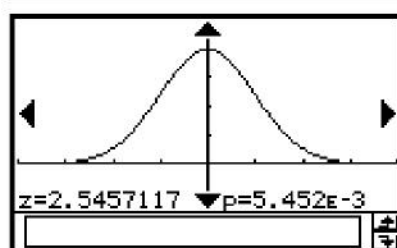


$$\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$$

P1 condition >

x_1	220
n_1	400
x_2	184
n_2	400

<< Back Help Next >>



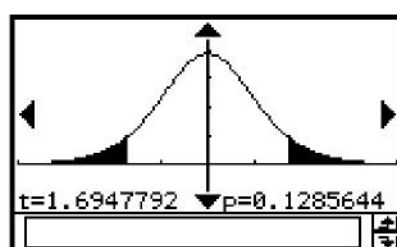


$$\frac{\mu}{\sqrt{\quad}}$$



Type	Test
	One-Sample TTest
	<input checked="" type="radio"/> List <input type="radio"/> Variable
<input type="checkbox"/> Help <input type="button" value="Next >>"/>	

μ condition	\neq
μ_0	250
List	list1
Freq	1
<input type="button" value="Back <<"/> <input type="checkbox"/> Help <input type="button" value="Next >>"/>	



μ condition \neq

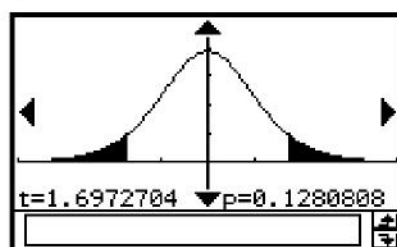
μ_0 250

\bar{x} 295.6

s_x 80.6

n 9

<< Back Help Next >>





$$\sqrt{\frac{\quad}{\quad}}$$

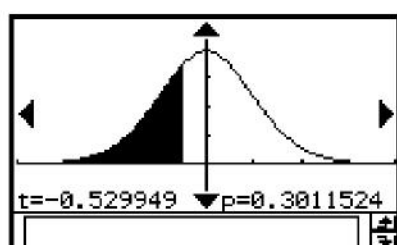
$$\sqrt{\frac{\quad}{\quad}}$$

$$\frac{\quad}{\quad}$$

$$\frac{\quad}{(\quad)}$$



μ_1 condition < ▾
List(1) list1 ▾
List(2) list2 ▾
Freq(1) 1 ▾
Freq(2) 1 ▾
Pooled Off ▾





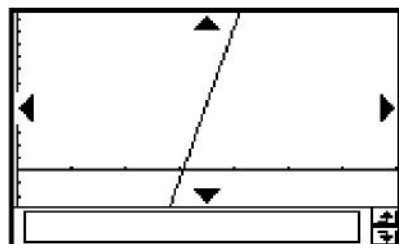
$\sqrt{\quad}$





β & ρ cond.	\neq
XList	list1
YList	list2
Freq	1

<< Back Help Next >>



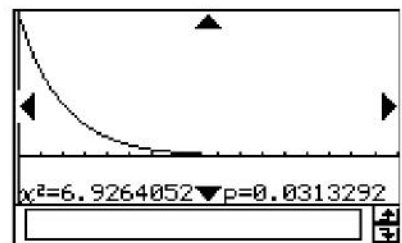
$$\frac{\ell}{\ell}$$
$$\ell \underline{\hspace{2cm}}$$

[]

a:= $\begin{bmatrix} 11 & 68 & 3 \\ 9 & 23 & 5 \end{bmatrix}$

$\begin{bmatrix} 11 & 68 & 3 \\ 9 & 23 & 5 \end{bmatrix}$

Matrix:

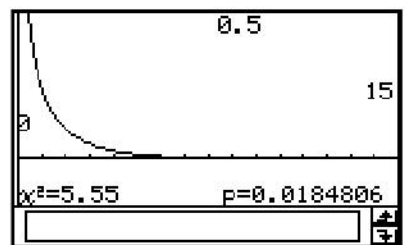




```
list1:=(1,2,3)      (1,2,3)
list2:=(4,5,6)      (4,5,6)
```

```
List(1) list1
List(2) list2
df 11
```

<< Back Help Next >>

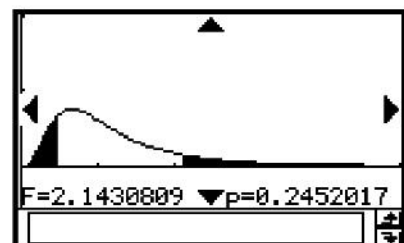




—



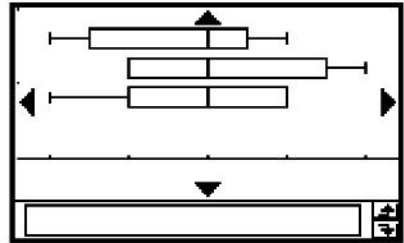
δ_1 condition	≠
List(1)	list1
List(2)	list2
Freq(1)	1
Freq(2)	1







List	list1	▼	▲
List	list2	▼	
List	list3	▼	
List	Off	▼	
List	Off	▼	▼
<input type="button" value="◀ Back"/>		<input type="checkbox"/> Help	<input type="button" value="Next ▶"/>







A df	1
A MS	1196.6045
A SS	1196.6045
A F	68.789163
A p	3.462E-7
B df	1
B MS	662.4005
B SS	662.4005
B F	38.078842
B p	1.343E-5
AB df	1
AB MS	382.8125

<< Back Help







$$\binom{-}{\sqrt{}}$$

$$\binom{-}{\sqrt{}}$$



C-Level	<input type="text" value="0.95"/>
σ	<input type="text" value="3"/>
List	<input type="text" value="list1"/>
Freq	<input type="text" value="1"/>
<input type="button" value="Back"/> <input type="checkbox"/> Help <input type="button" value="Next"/>	

Lower	<input type="text" value="296.63288"/>
Upper	<input type="text" value="301.43379"/>
\bar{x}	<input type="text" value="299.03333"/>
s_x	<input type="text" value="1.5028861"/>
n	<input type="text" value="6"/>
<input type="button" value="Back"/> <input type="checkbox"/> Help	



C-Level	<input type="text" value="0.95"/>
σ	<input type="text" value="3"/>
\bar{x}	<input type="text" value="300"/>
n	<input type="text" value="6"/>
<input type="button" value="Back"/> <input type="checkbox"/> Help <input type="button" value="Next"/>	

Lower	<input type="text" value="297.59954"/>
Upper	<input type="text" value="302.40046"/>
\bar{x}	<input type="text" value="300"/>
n	<input type="text" value="6"/>
<input type="button" value="Back"/> <input type="checkbox"/> Help	



$$\begin{aligned} &(-)\sqrt{\quad} \quad - \\ &(-)\sqrt{\quad} \quad - \end{aligned}$$



C-Level	<input type="text" value="0.95"/>
σ_1	<input type="text" value="15.5"/>
σ_2	<input type="text" value="13.5"/>
List(1)	<input type="text" value="list1"/>
List(2)	<input type="text" value="list2"/>
Freq(1)	<input type="text" value="1"/>
Freq(2)	<input type="text" value="1"/>

Lower	<input type="text" value="-4.416749"/>
Upper	<input type="text" value="31.61675"/>
\bar{x}_1	<input type="text" value="131"/>
\bar{x}_2	<input type="text" value="117.4"/>



$$\begin{aligned} - & (-)\sqrt{-(-(-))} \\ - & (-)\sqrt{-(-(-))} \end{aligned}$$



C-Level	<input type="text" value="0.99"/>
x	<input type="text" value="2048"/>
n	<input type="text" value="4040"/>
<input type="button" value="« Back"/> <input type="checkbox"/> Help <input type="button" value="Next »"/>	

Lower	<input type="text" value="0.4866699"/>
Upper	<input type="text" value="0.5271914"/>
\hat{p}	<input type="text" value="0.5069306"/>
n	<input type="text" value="4040"/>
<input type="button" value="« Back"/> <input type="checkbox"/> Help	



$$- \quad - \quad (-) \sqrt{\frac{-(-) \quad -(-)}{\quad \quad}}$$

$$- \quad - \quad (-) \sqrt{\frac{-(-) \quad -(-)}{\quad \quad}}$$



C-Level	0.95
x_1	49
n_1	61
x_2	38
n_2	62
<input type="button" value="Back"/> <input type="checkbox"/> Help <input type="button" value="Next"/>	

Lower	0.0333679
Upper	0.3473829
\hat{p}_1	0.8032786
\hat{p}_2	0.6129032
<input type="button" value="Back"/> <input type="checkbox"/> Help	



$$\binom{-}{\sqrt{}}$$

$$\binom{-}{\sqrt{}}$$



C-Level	<input type="text" value="0.95"/>
List	<input type="text" value="list1"/>
Freq	<input type="text" value="1"/>

Help

Lower	<input type="text" value="1.544574"/>
Upper	<input type="text" value="1.955426"/>
\bar{x}	<input type="text" value="1.75"/>
s_x	<input type="text" value="0.1290994"/>
n	<input type="text" value="4"/>

Help





$$(-)\sqrt{(-)}$$

$$(-)\sqrt{(-)}$$

$$(-)\sqrt{(-)}$$

$$(-)\sqrt{(-)}$$

(____)



	list1	list2	list3
1	12.207	11.074	
2	16.869	9.686	
3	25.05	12.064	
4	22.429	9.351	
5	8.456	8.182	

Calc

[7] =

C-Level

List(1)

List(2)

Freq(1)

Freq(2)

<< Back Help Next >>

Lower

Upper

df

\bar{x}_1

<< Back Help









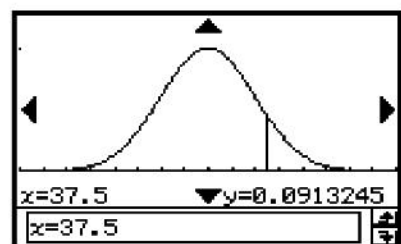






$\sqrt{\quad}$ \quad

x	<input type="text" value="37.5"/>
σ	<input type="text" value="2"/>
μ	<input type="text" value="35"/>
<input type="button" value="Back"/> <input type="button" value="Help"/> <input type="button" value="Next"/>	

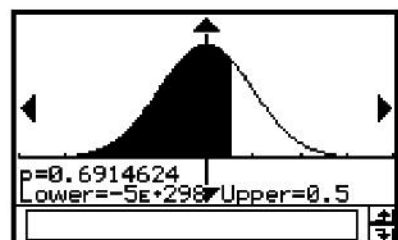




$$p = \frac{1}{\sqrt{2\pi}\sigma} \int_a^b e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$



Lower	<input type="text" value="-∞"/>
Upper	<input type="text" value="36"/>
σ	<input type="text" value="2"/>
μ	<input type="text" value="35"/>
<input type="button" value="◀ Back"/> <input type="checkbox"/> Help <input type="button" value="Next ▶"/>	





$$\int_{-\infty}^{\alpha} f(x)dx = p$$

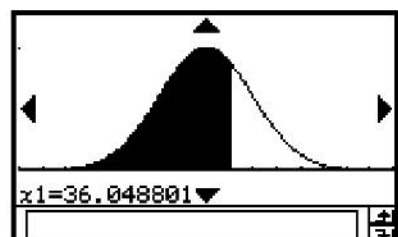
$$\int_{\alpha}^{+\infty} f(x)dx = p$$

$$\int_{\alpha}^{\beta} f(x)dx = p$$

(—)



Tail setting	Left
Area	0.7
σ	2
μ	35
<input type="button" value="Back"/> <input type="checkbox"/> Help <input type="button" value="Next"/>	

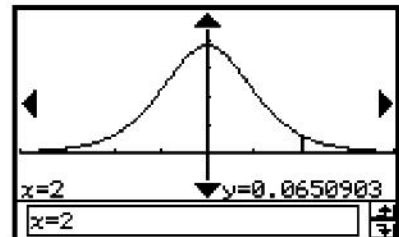




$$\frac{\left(\frac{t}{n}\right) \left(\frac{t}{n}\right)^{-1}}{\left(\frac{t}{n}\right) \sqrt{\frac{t}{n}}}$$



x	2
df	5
<< Back □ Help Next >>	

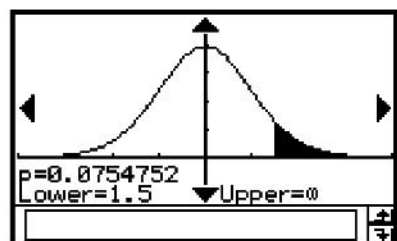




$$\frac{(\text{---})}{(\text{---})\sqrt{\text{---}}} \int (\text{---})^{\text{---}}$$



Lower	<input type="text" value="1.5"/>
Upper	<input type="text" value="∞"/>
df	<input type="text" value="18"/>
<input type="button" value="◀ Back"/> <input type="button" value="Help"/> <input type="button" value="Next ▶"/>	





$$\int_a^+ f(x) = p$$



prob
df

Help

xInv

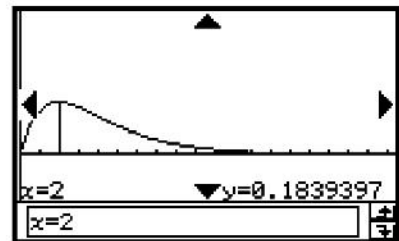
Help



$$\frac{1}{(-1)^{-1}}$$



x	<input type="text" value="2"/>
df	<input type="text" value="4"/>
<input type="button" value="Back"/> <input type="checkbox"/> Help <input type="button" value="Next"/>	

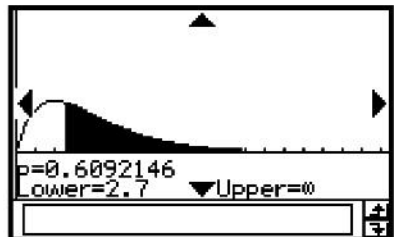




$$\frac{1}{(-1)^{(-1)}} \int - -$$



Lower	<input type="text" value="2.7"/>
Upper	<input type="text" value="∞"/>
df	<input type="text" value="4"/>
<input type="button" value="◀ Back"/> <input type="checkbox"/> Help <input type="button" value="Next ▶"/>	



$$\int_{\alpha}^{+} f(x) = p$$



prob	<input type="text" value="0.6092146"/>
df	<input type="text" value="4"/>
<input type="button" value="Back"/> <input type="checkbox"/> Help <input type="button" value="Next"/>	

xInv	<input type="text" value="2.7"/>
<input type="button" value="Back"/> <input type="checkbox"/> Help	

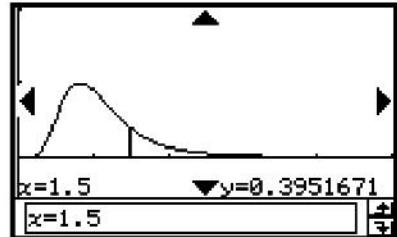


--

$$\frac{\binom{(-)}{(-)}}{\binom{(-)}{(-)}} \binom{(-)}{(-)} - \binom{(-)}{(-)}$$



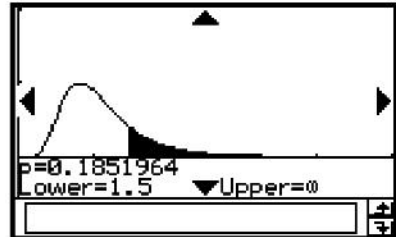
x	1.5
n:df	24
d:df	19
<input type="button" value="Back"/> <input type="checkbox"/> Help <input type="button" value="Next"/>	



$$\frac{\binom{(-)}{(-)} \binom{(-)}{(-)} \int - \binom{(-)}{(-)}$$



Lower	<input type="text" value="1.5"/>
Upper	<input type="text" value="∞"/>
n:df	<input type="text" value="24"/>
d:df	<input type="text" value="19"/>
<input type="button" value="◀ Back"/> <input type="checkbox"/> Help <input type="button" value="Next ▶"/>	



$$\int_a^+ f(x) = p$$



prob
n:df
d:df

Help

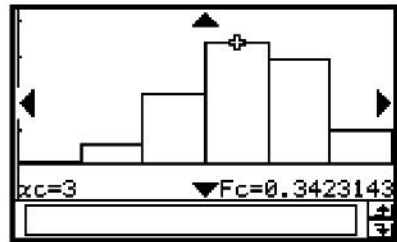
zInv

Help





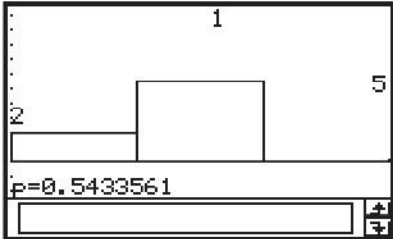
x	3
Numtrial	5
prob	0.63
<input type="button" value="Back"/> <input type="checkbox"/> Help <input type="button" value="Next"/>	



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Lower	<input type="text" value="2"/>
Upper	<input type="text" value="3"/>
Numtrial	<input type="text" value="5"/>
pos	<input type="text" value="0.63"/>
<input type="button" value="Back"/> <input type="checkbox"/> Help <input type="button" value="Next"/>	



$$f(x) \geq prob$$





prob	<input type="text" value="0.61"/>
Numtrial	<input type="text" value="5"/>
pos	<input type="text" value="0.63"/>

Help

prob	<input type="text" value="0.61"/>
xInv	<input type="text" value="4"/>

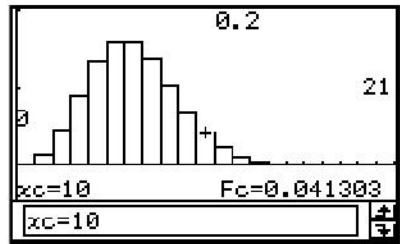
prob-0.01	
*xInv	<input type="text" value="3"/>

Help





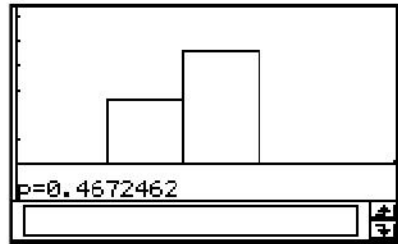
x	<input type="text" value="10"/>
λ	<input type="text" value="6"/>
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<input type="text"/>



Lower	<input type="text" value="2"/>
Upper	<input type="text" value="3"/>
λ	<input type="text" value="2.26"/>
<input type="button" value=" << Back"/> <input type="button" value=" Help"/> <input type="button" value=" Next >>"/>	



$$f(x) \geq prob$$



prob	<input type="text" value="0.8074"/>
λ	<input type="text" value="2.26"/>
<input type="button" value="◀ Back"/> <input type="checkbox"/> Help <input type="button" value="Next ▶"/>	

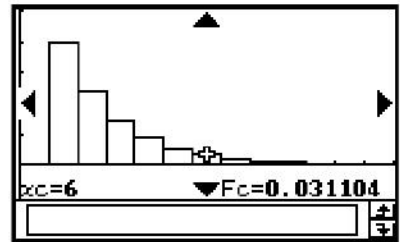
prob	<input type="text" value="0.8074"/>
xInv	<input type="text" value="3"/>
<input type="button" value="◀ Back"/> <input type="checkbox"/> Help	



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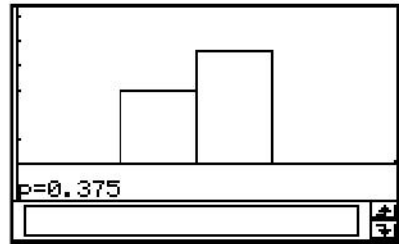
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prob	<input type="text" value="0.4"/>
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<input type="text"/>



Lower	<input type="text" value="2"/>
Upper	<input type="text" value="3"/>
pos	<input type="text" value="0.5"/>
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$$f(x) \geq prob$$



prob
pos

Help

prob
xInv

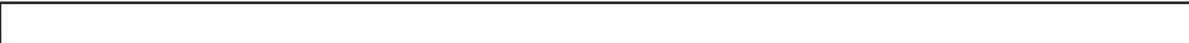
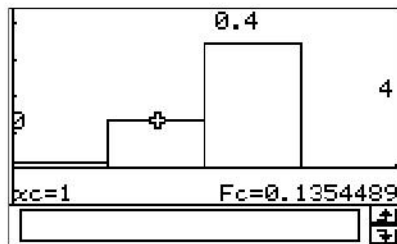
Help





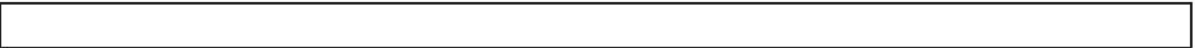
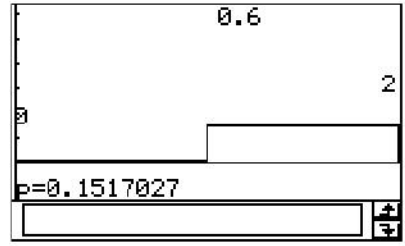
x	1
n	5
M	10
N	20

<< Back Help Next >>



Lower	0
Upper	1
n	5
M	10
N	20

<< Back Help Next >>



prob

n

M

N

Help

prob

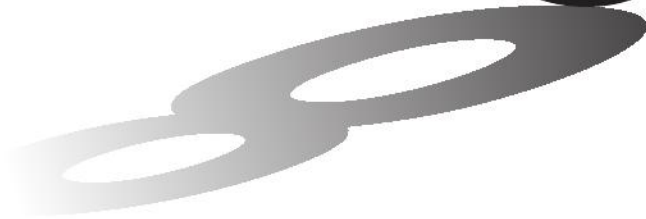
xInv

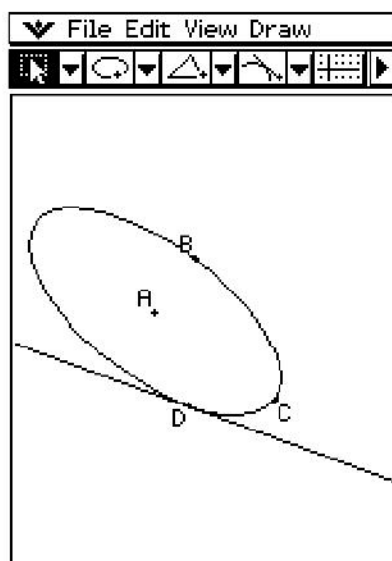
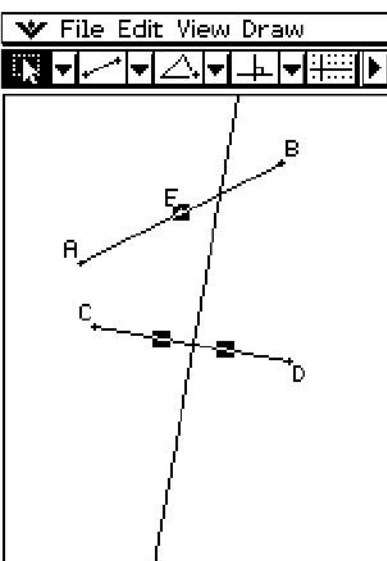
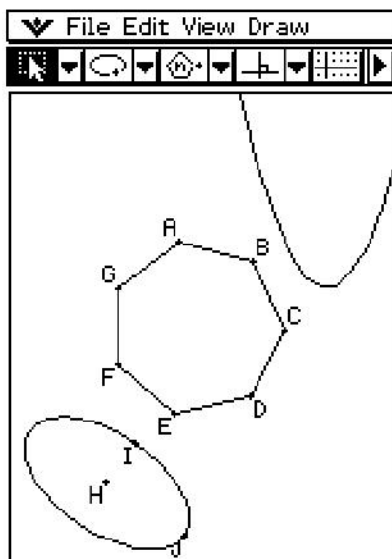
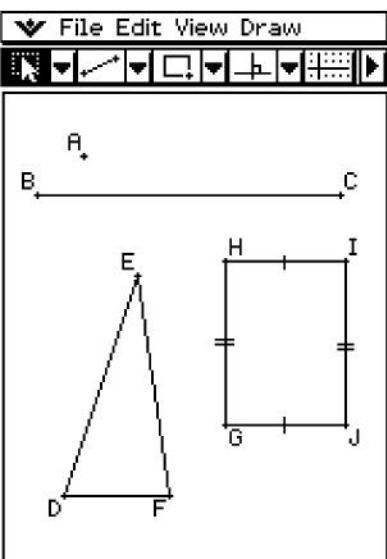
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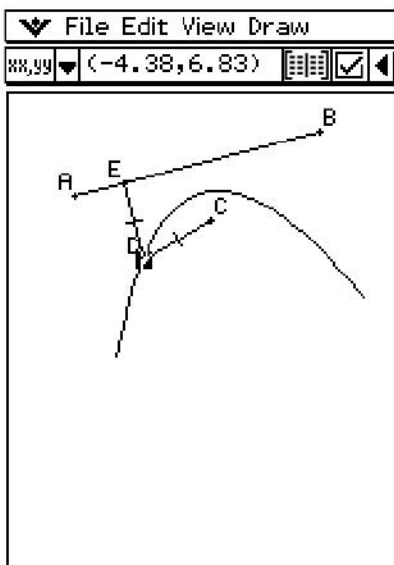
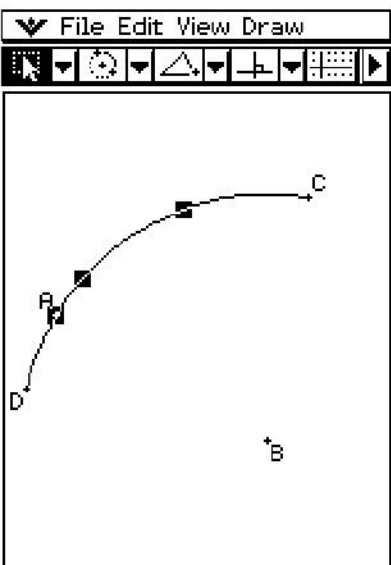
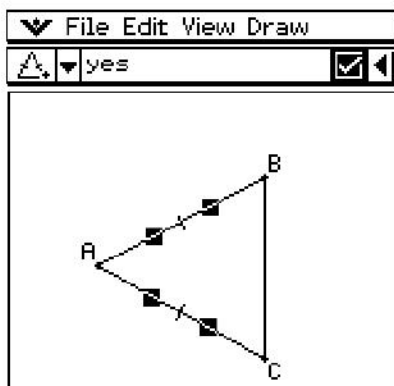
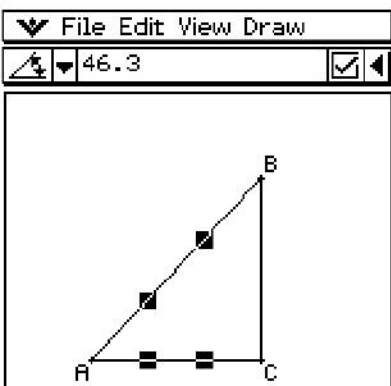


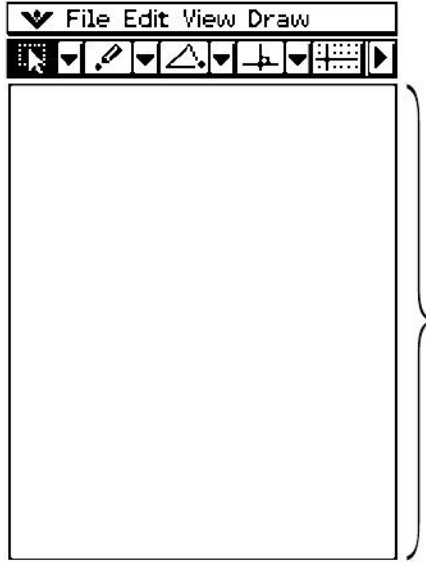


8











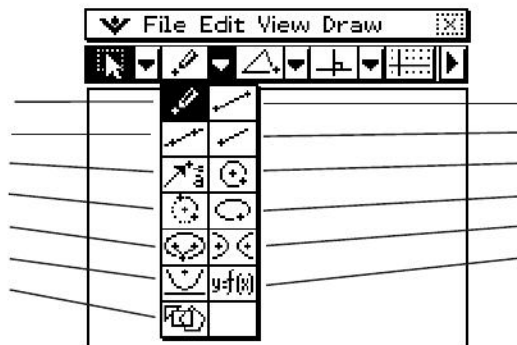
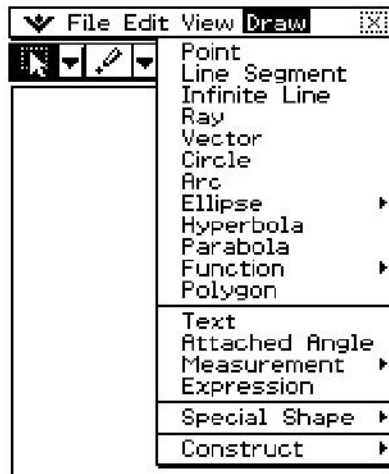


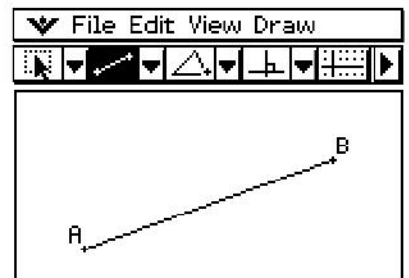
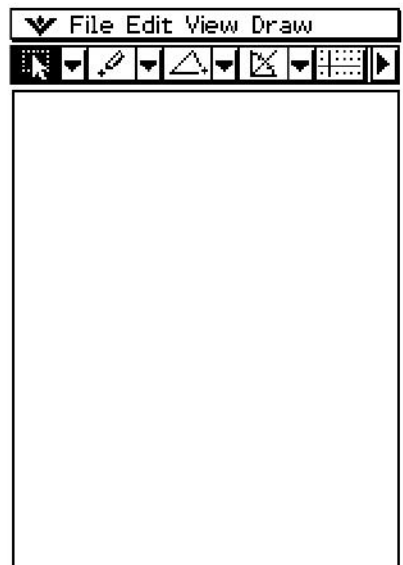
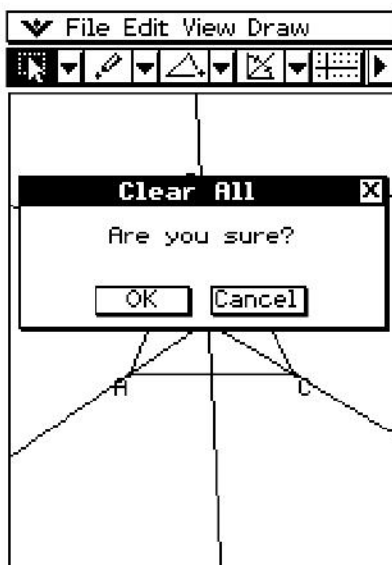
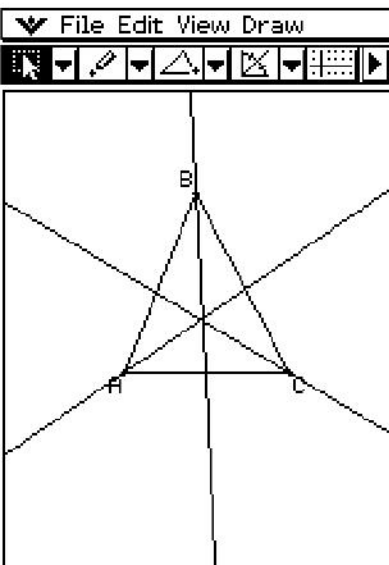


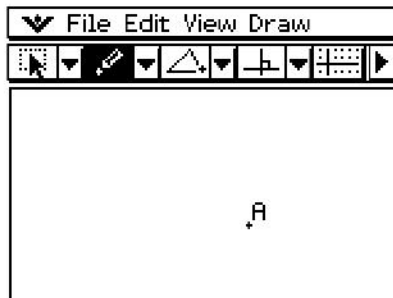
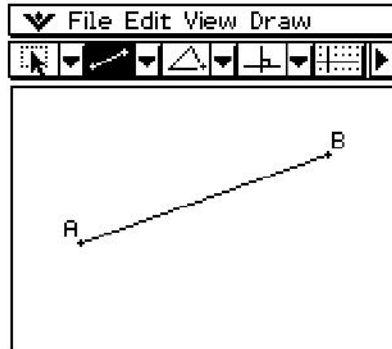
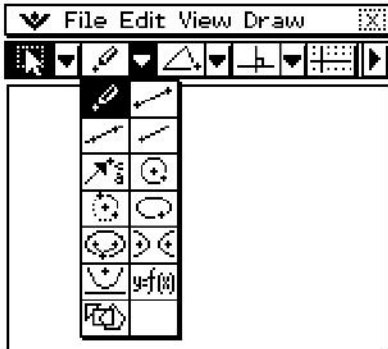
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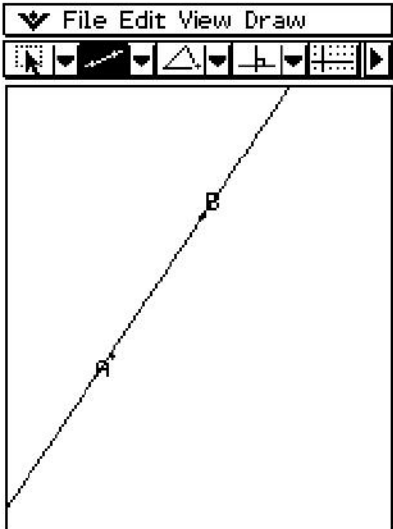
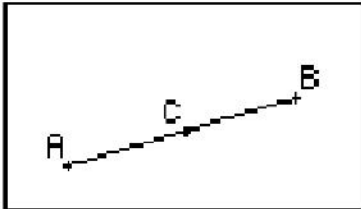
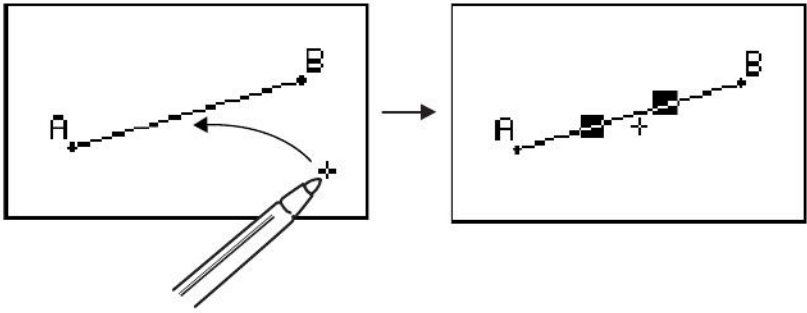


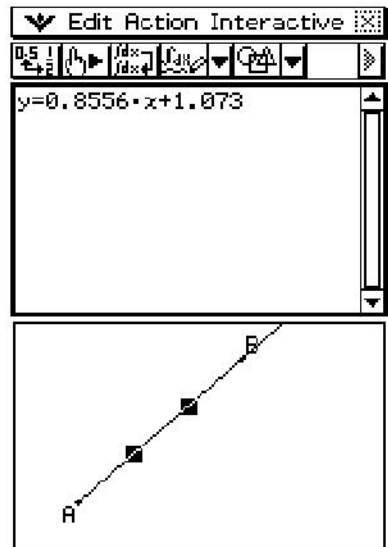
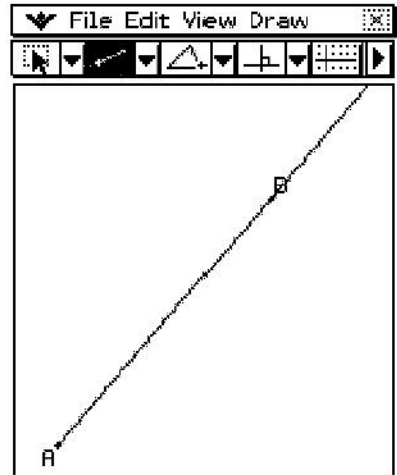


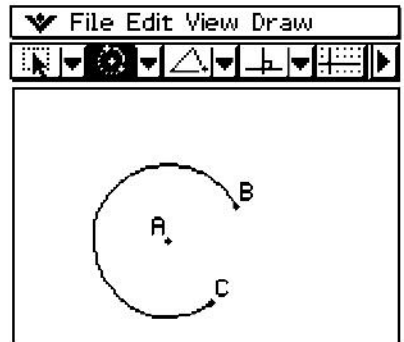
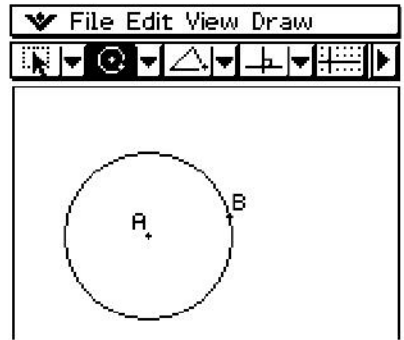
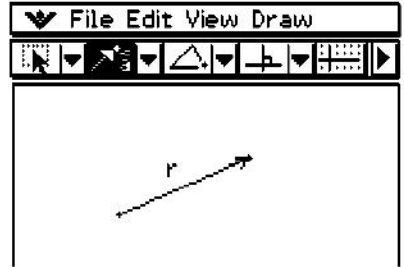


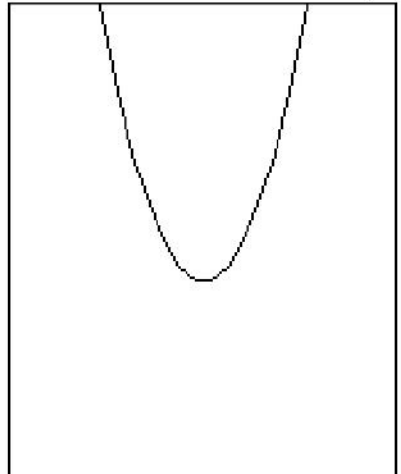
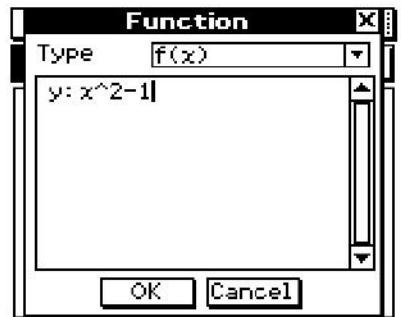














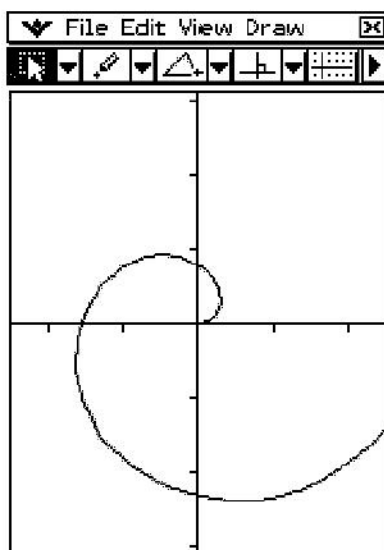
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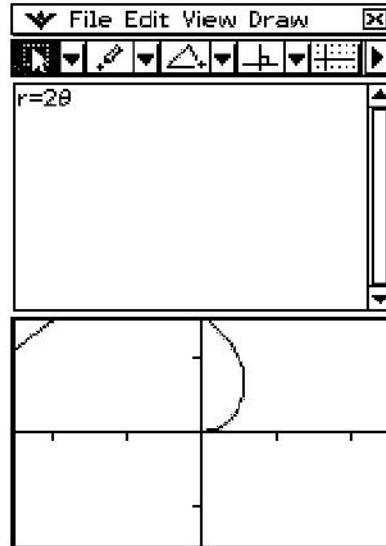
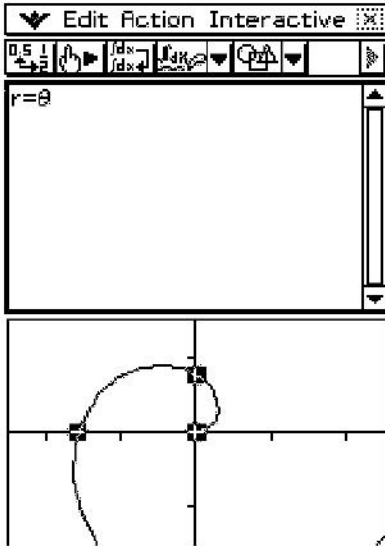
Type: Polar

r: 0
 $\theta_{\min}=0$
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OK Cancel

math	abc	cat	2D	X	↑	↓
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log	ln	$\sqrt{\quad}$	7	8	9	\wedge =
x^2	e^x	x^{-1}	4	5	6	\times +
()	x	1	2	3	+ -
[]	(-)	0	.	E	ans
TRIG	CALC	OPTN	VAR	EXE		





Function

Type: Parametric

xt:

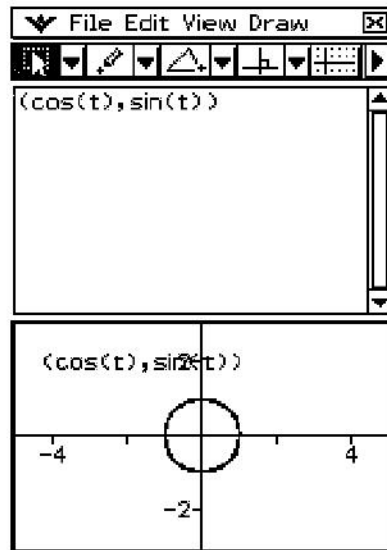
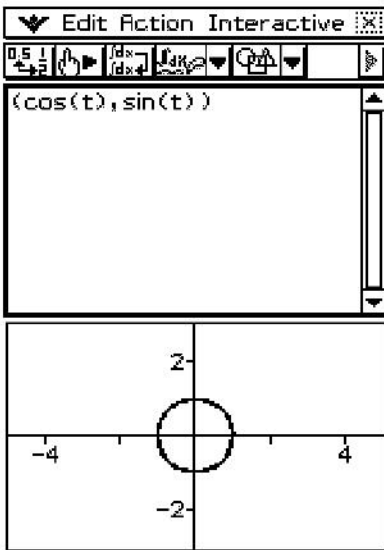
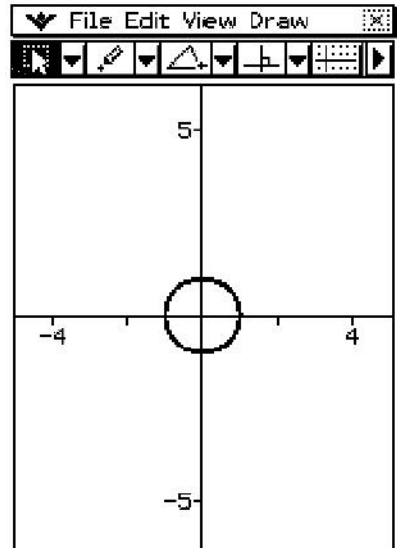
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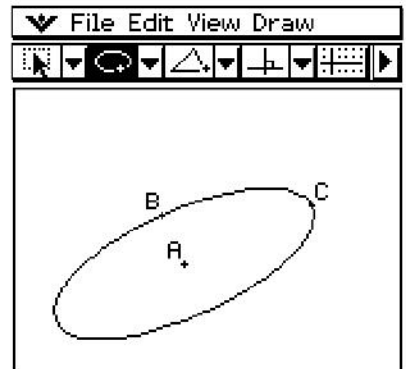
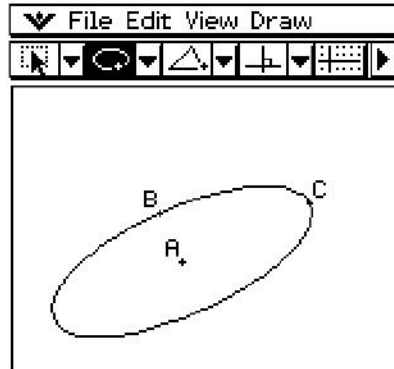
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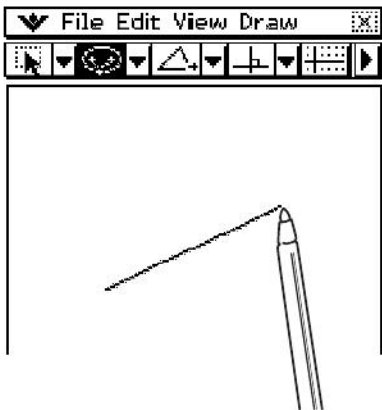
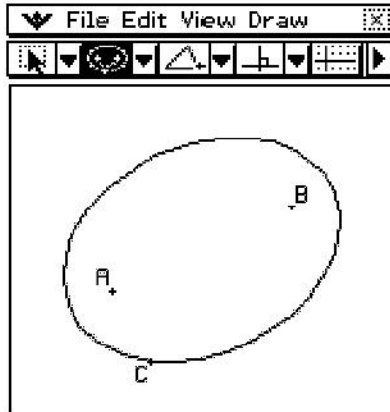
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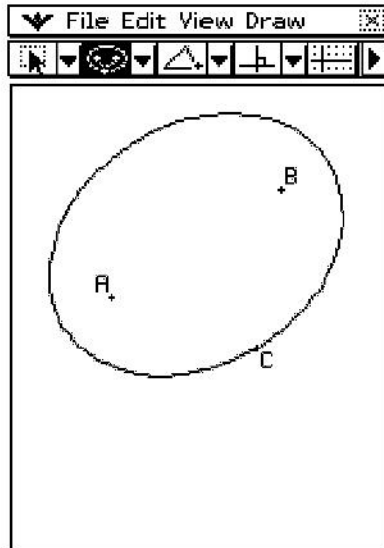
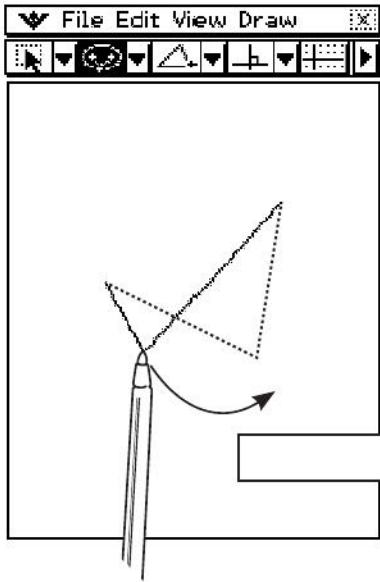
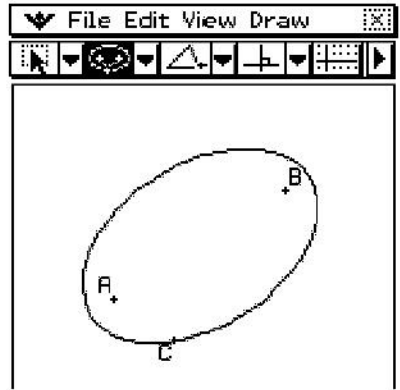
OK Cancel

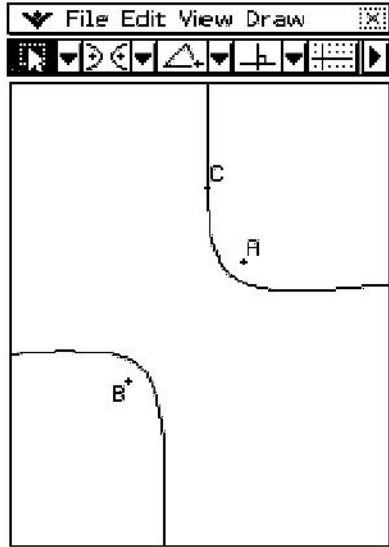
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π	θ	i	\emptyset	()	,	\Rightarrow
\log	\ln	$\sqrt{\quad}$		7	8	9
x^2	e^x	x^{-1}		4	5	6
\langle	\rangle	$ x $		1	2	3
[]	(-)		0	.	E
TRIG	CALC	OPTN	VAR	ans		
						EXE

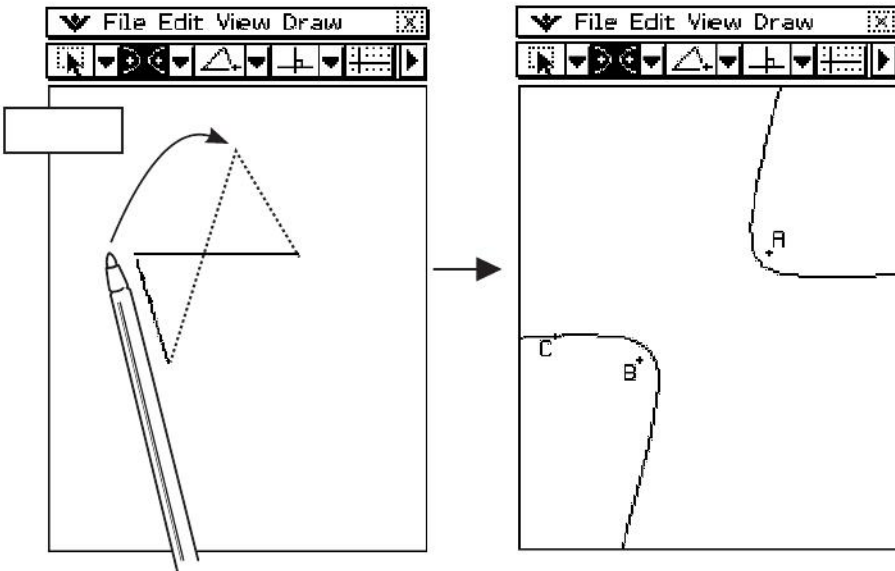
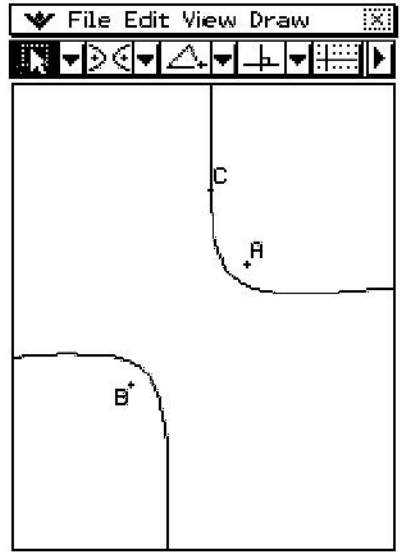


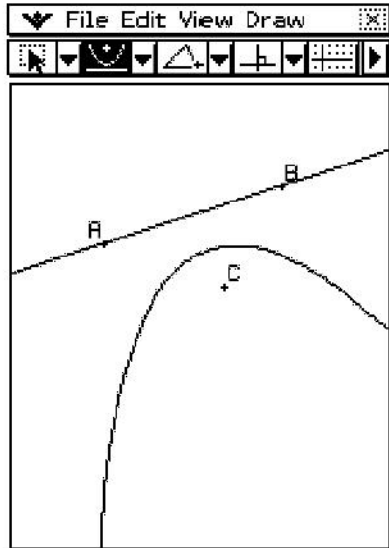


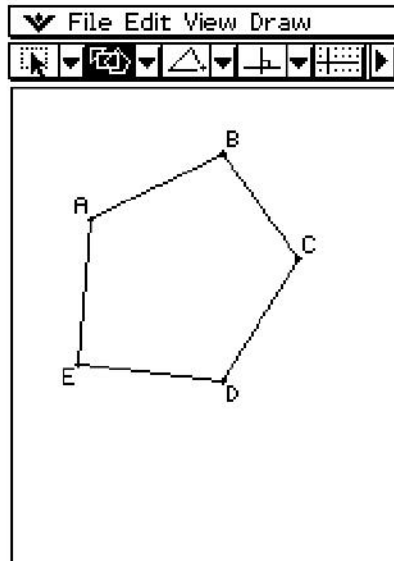
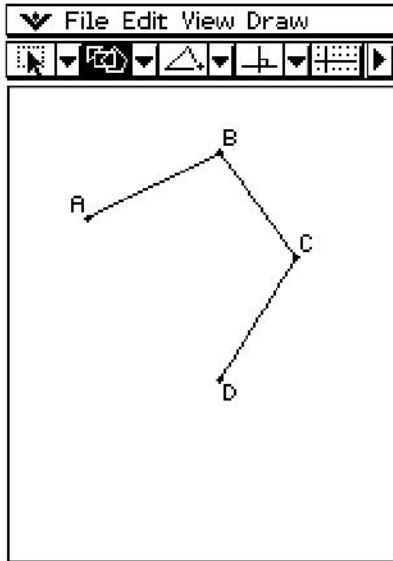


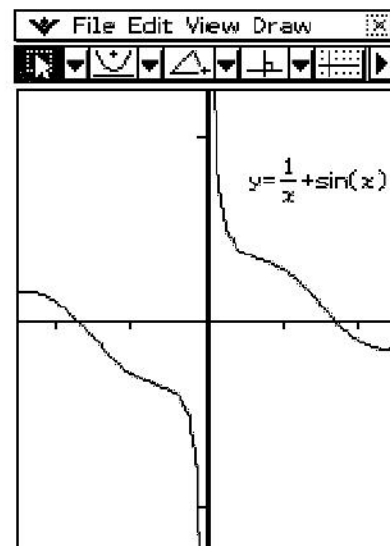
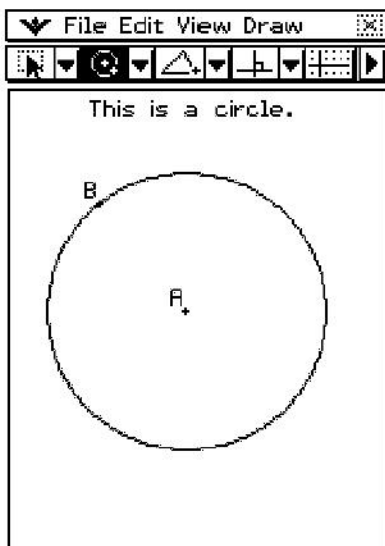
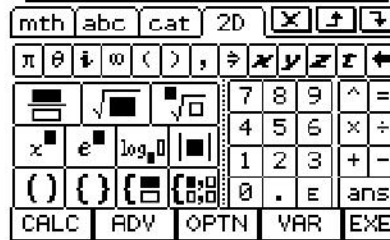
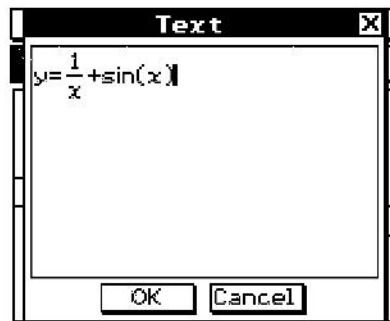
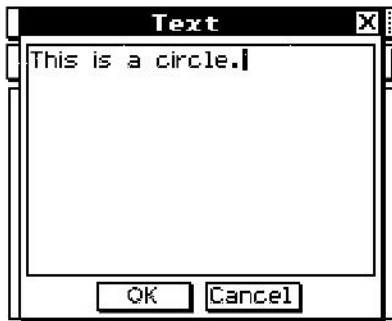


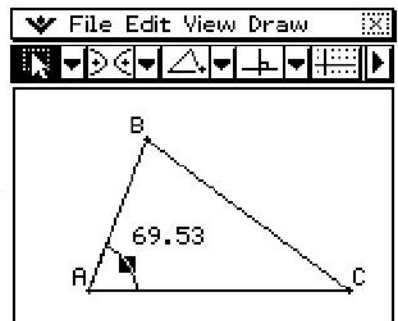
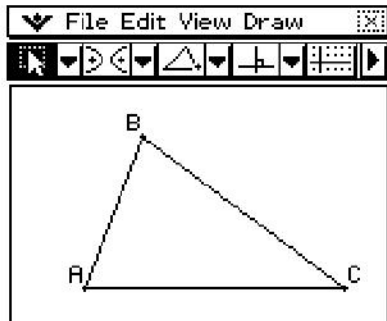
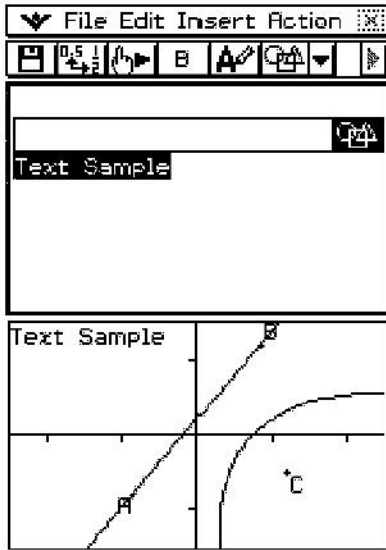


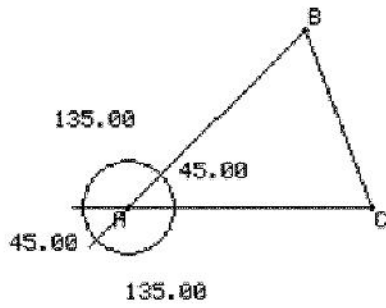
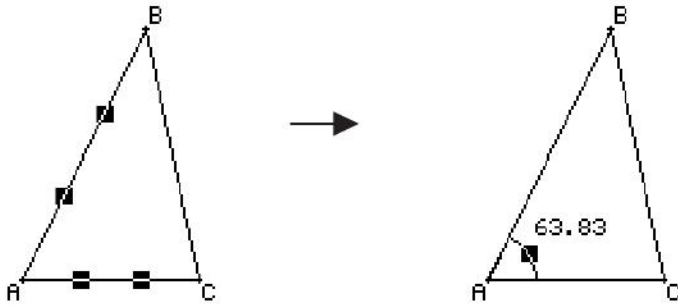


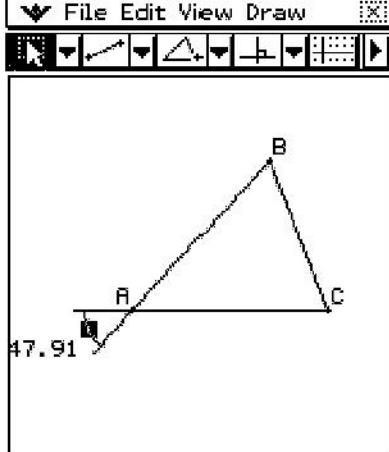
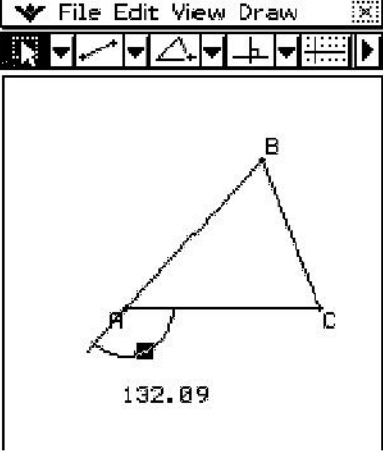
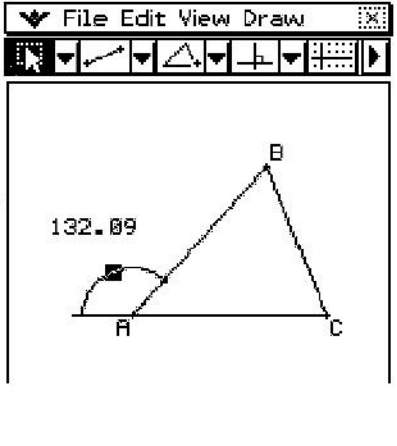
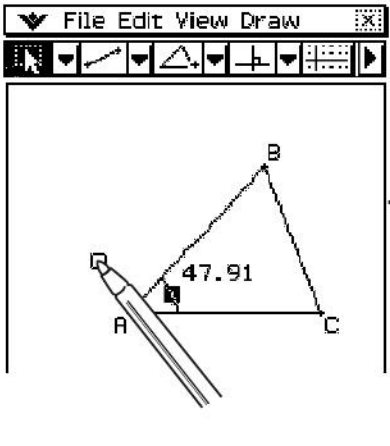
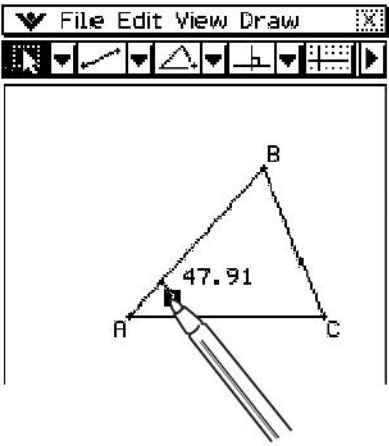




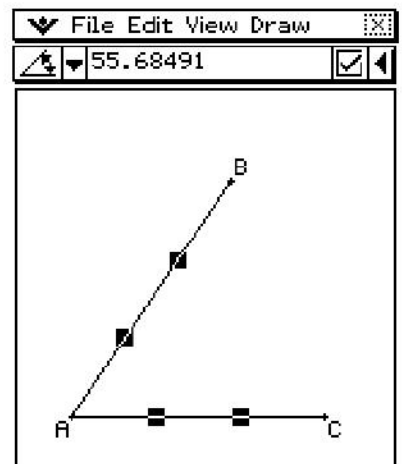


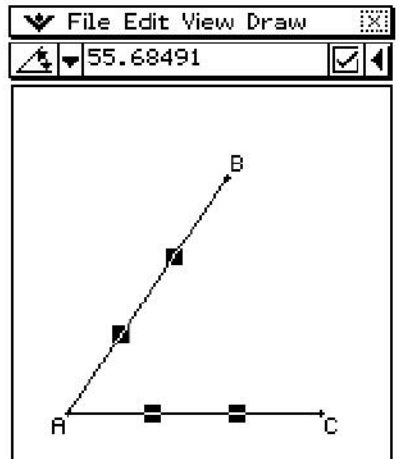
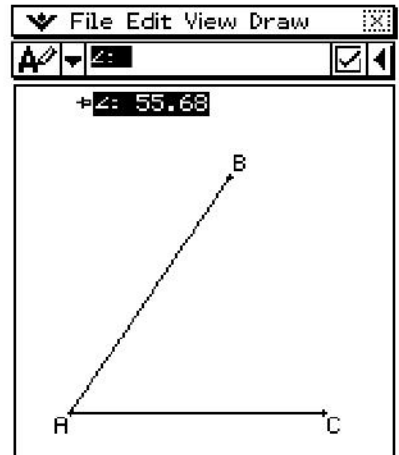


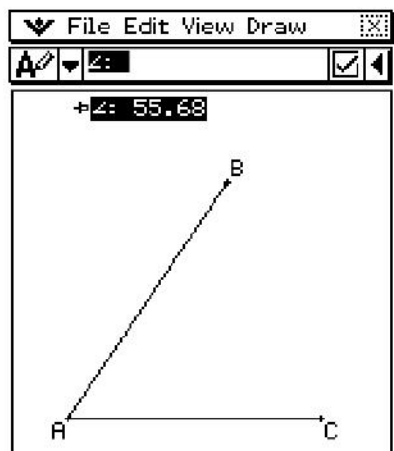
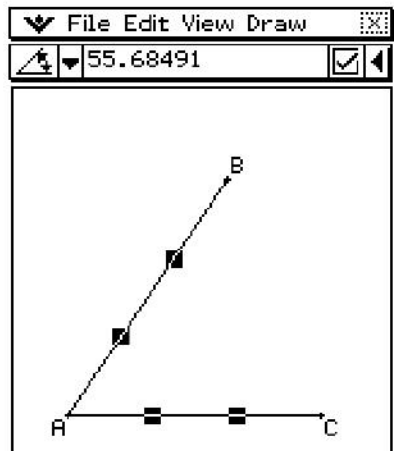
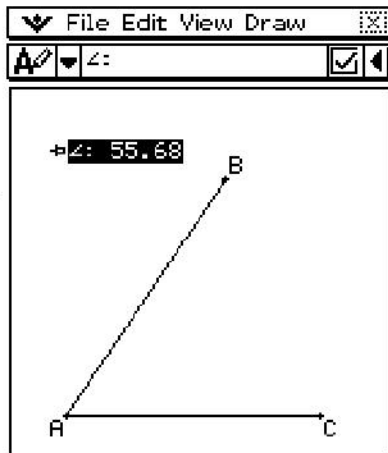
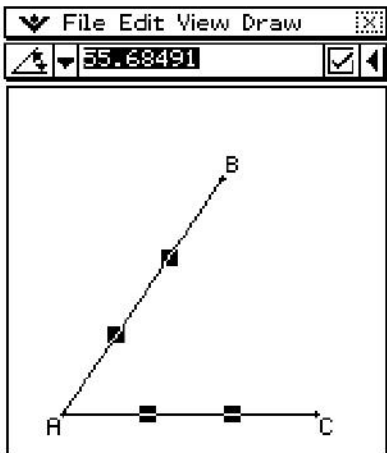


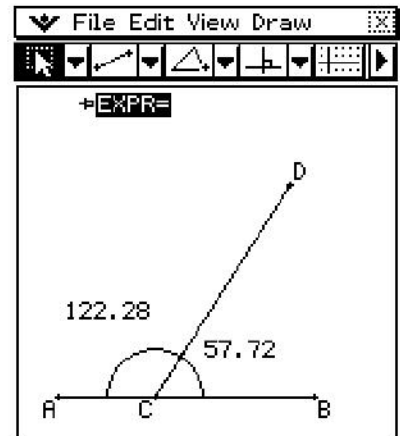


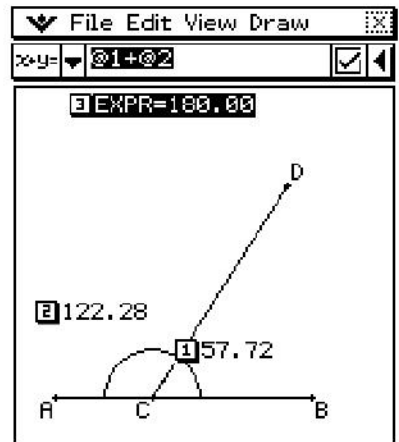
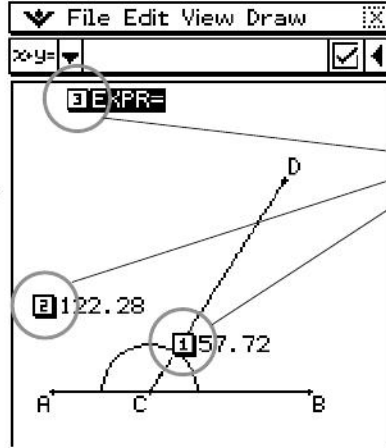
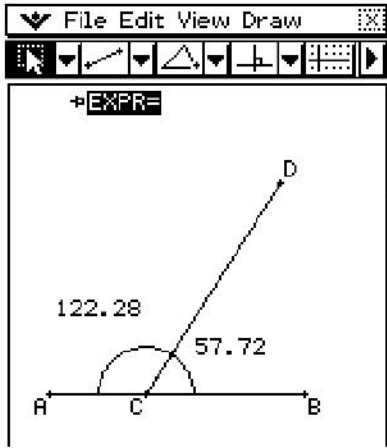


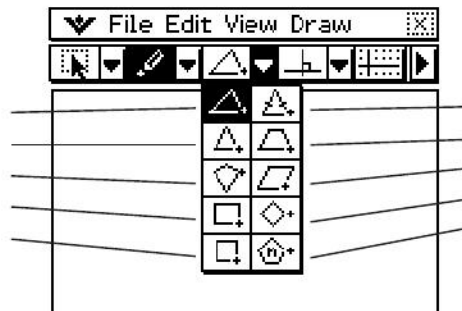
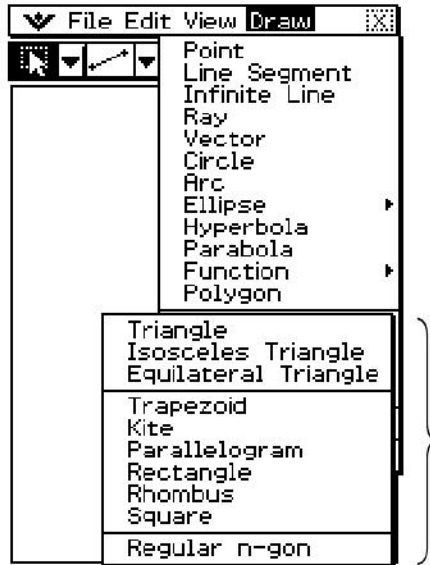


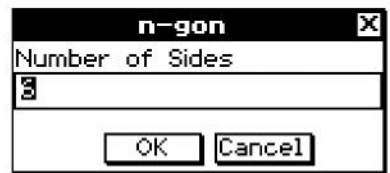
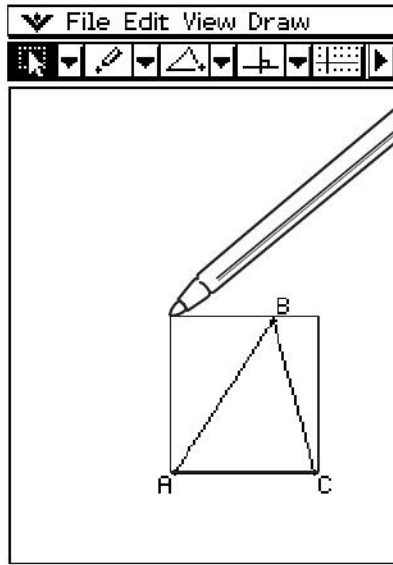
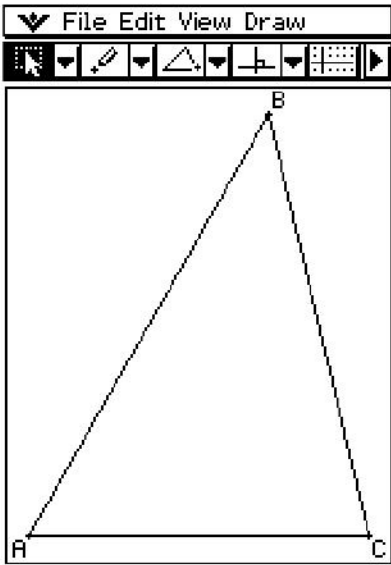


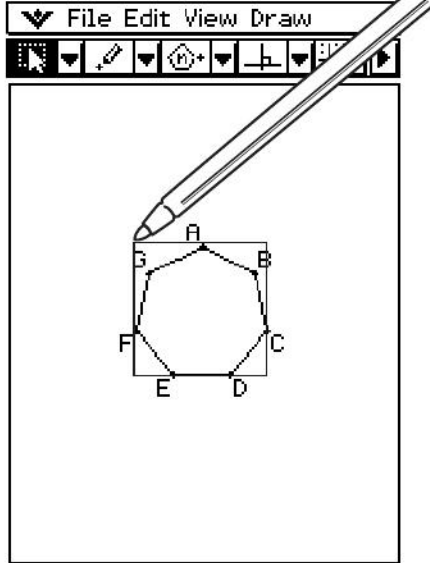
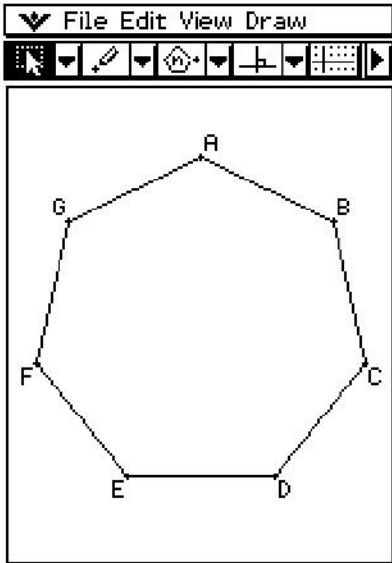


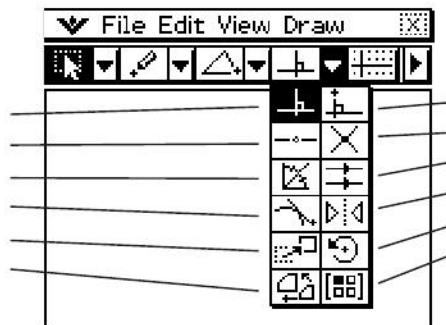
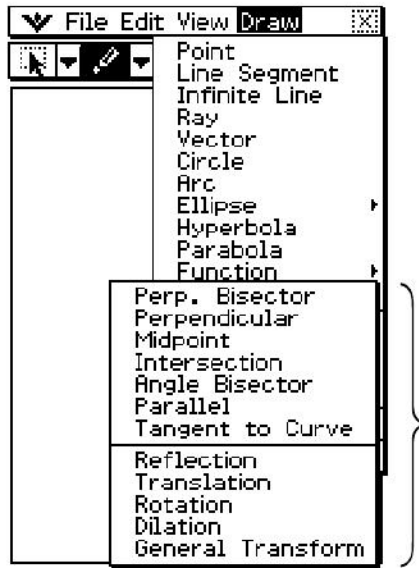


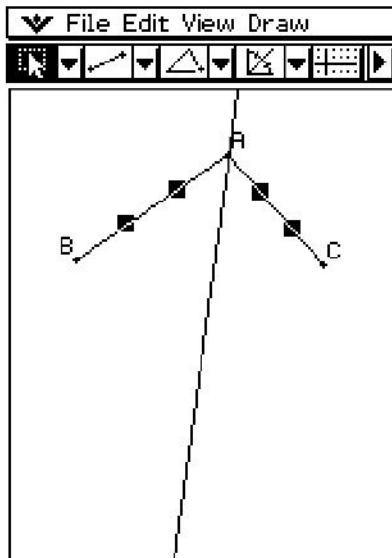
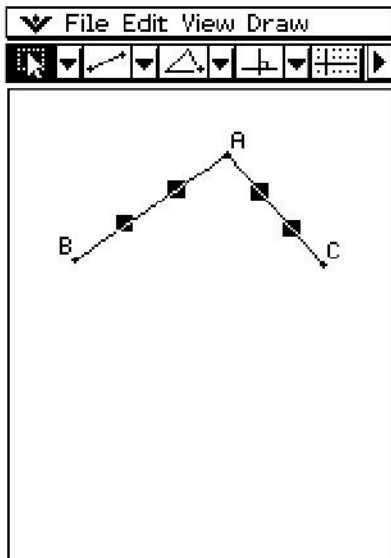
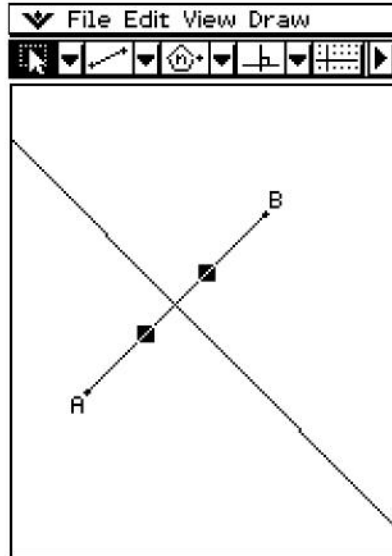
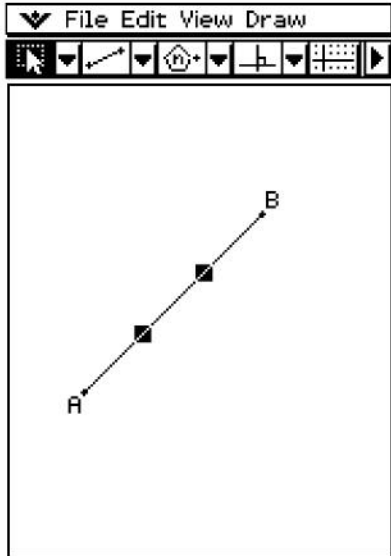


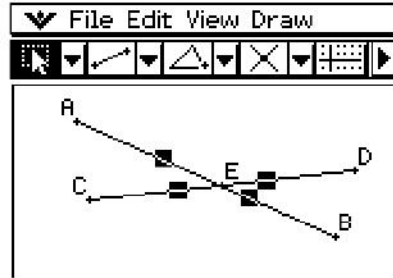
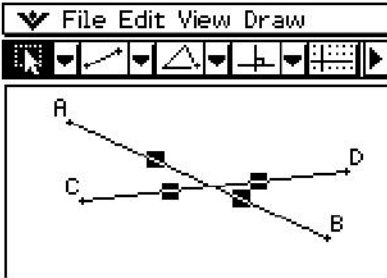
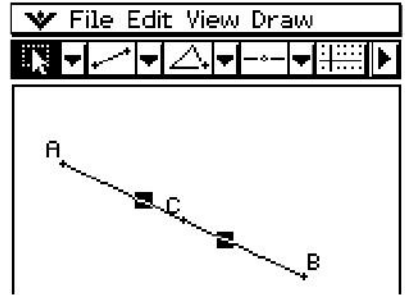


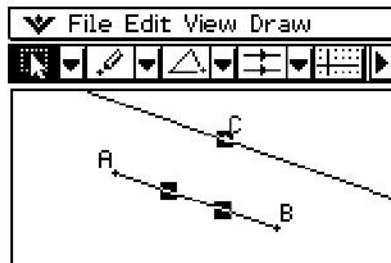
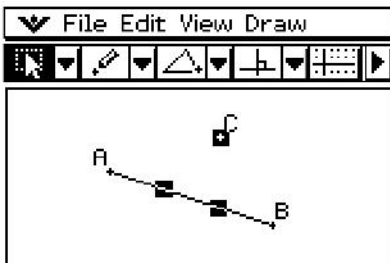
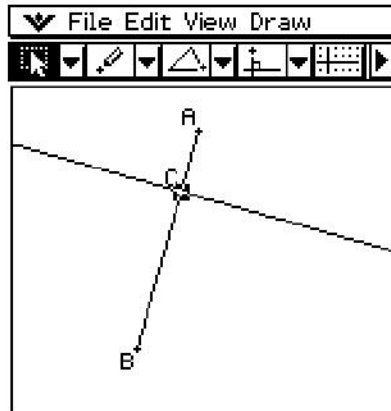
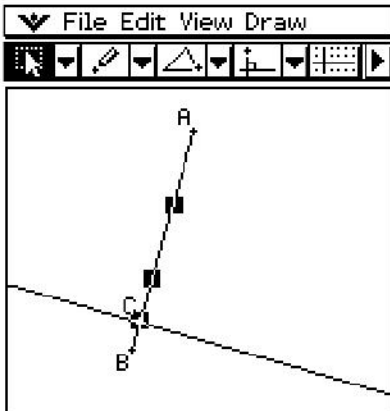


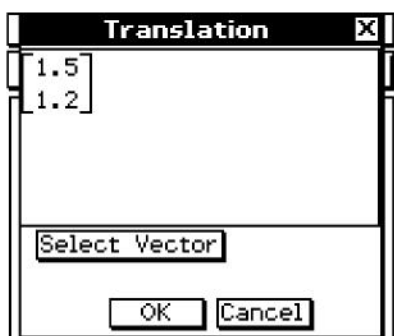
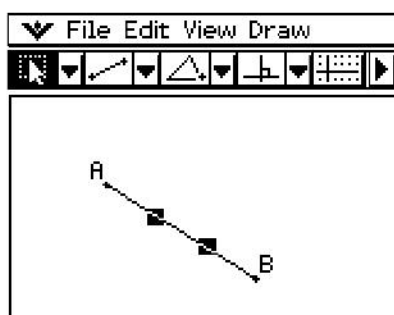
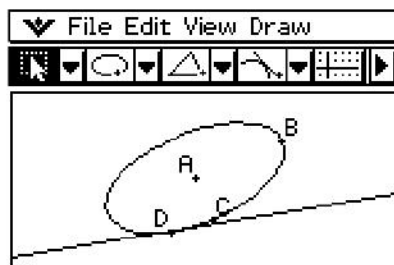
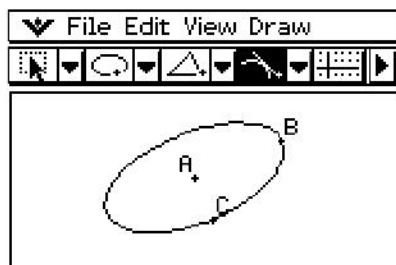


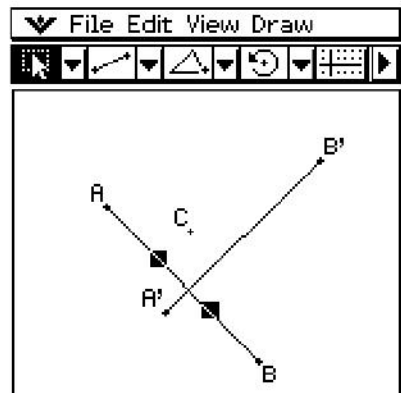
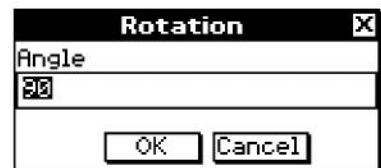
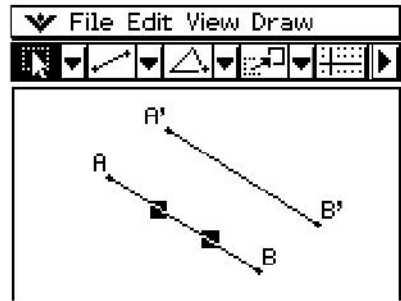


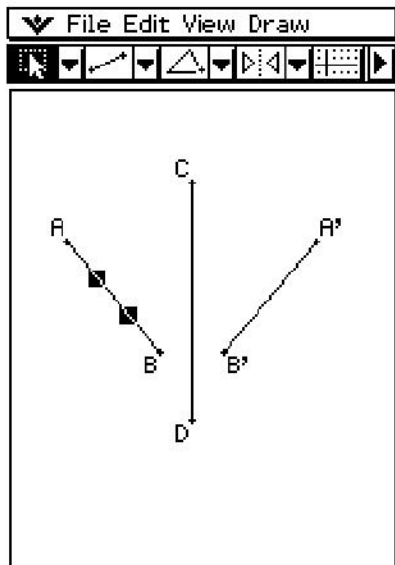
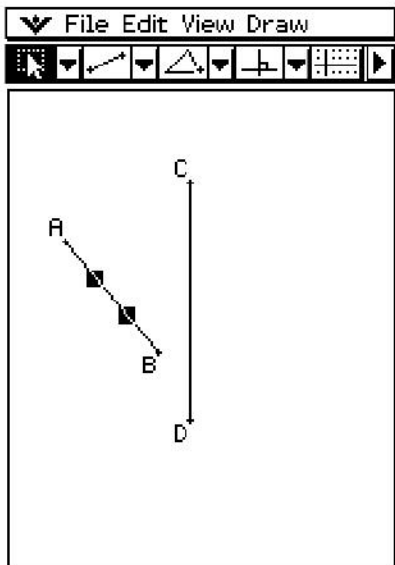














Dilation ✕

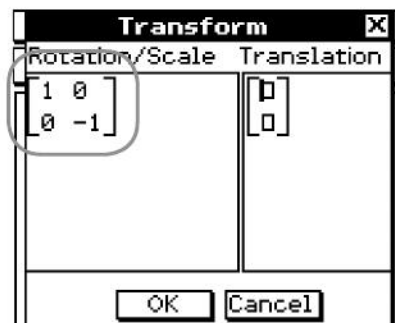
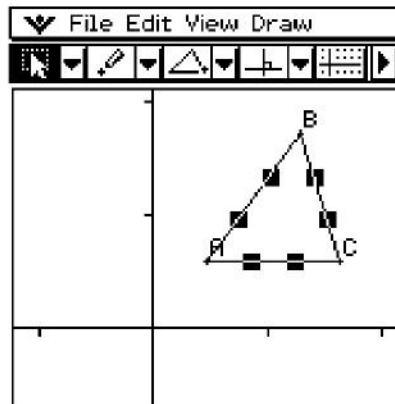
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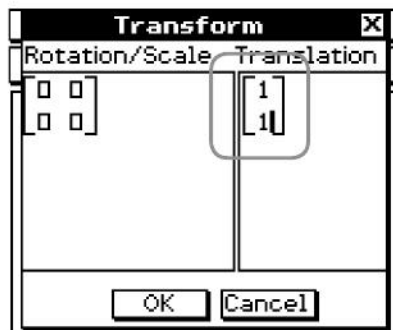
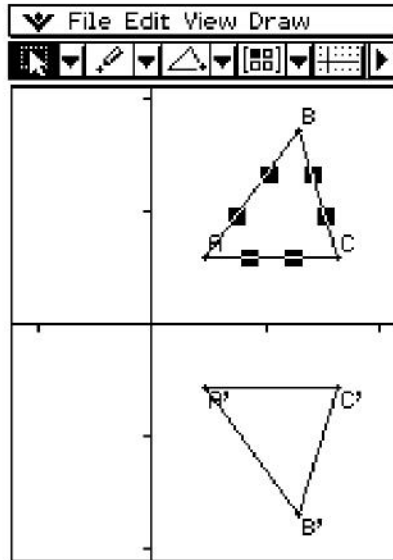
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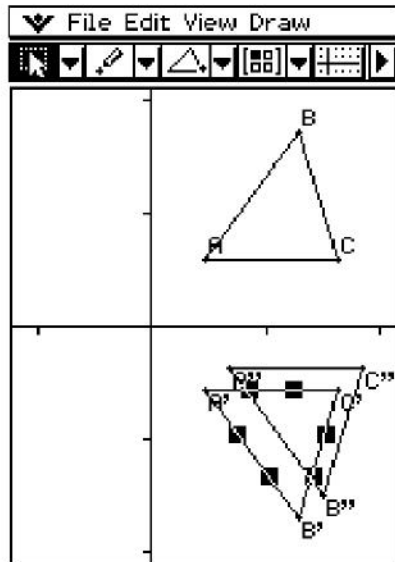
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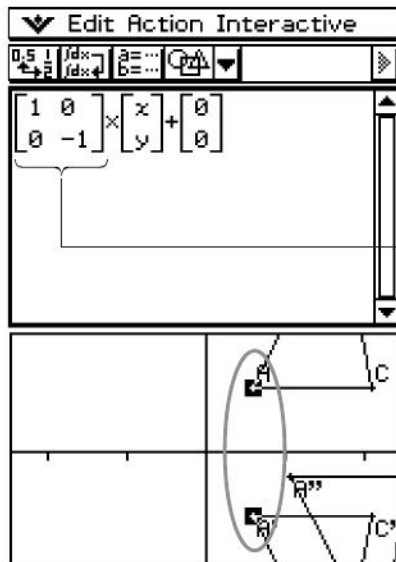
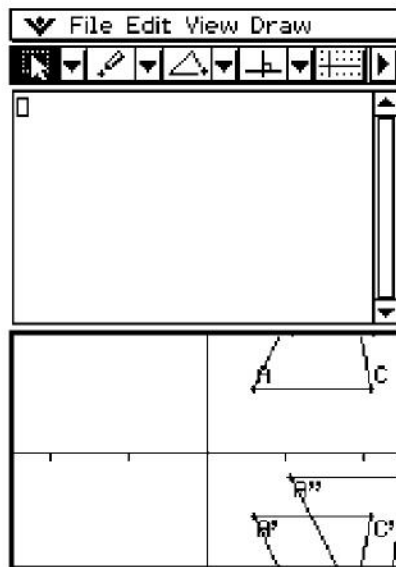
File Edit View Draw









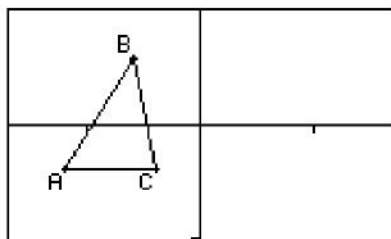




Edit Action Interactive

$\left[\begin{array}{cc} 1 & 0 \\ 0 & 1 \end{array} \right] \times \left[\begin{array}{c} x \\ y \end{array} \right] + \left[\begin{array}{c} 1 \\ 1 \end{array} \right]$

The diagram shows a coordinate plane with a horizontal axis and a vertical axis. A triangle with vertices A, B, and C is drawn in the first quadrant. A horizontal line segment is drawn through the triangle. Below the triangle, a dashed line indicates a transformation, and a circle highlights a specific point or region.





Edit Action Interactive

0.5 $\frac{1}{dx}$ $\frac{1}{dx}$ $a=...$ $b=...$ $\frac{1}{dx}$

$$\begin{bmatrix} -6 & -3 & -2 \\ -2 & 3 & -2 \end{bmatrix}$$

Edit Action Interactive

0.5 $\frac{1}{dx}$ $\frac{1}{dx}$ $a=...$ $b=...$ $\frac{1}{dx}$

$$\begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix} \times \begin{bmatrix} -6 & -3 & -2 \\ -2 & 3 & -2 \end{bmatrix}$$
$$\begin{bmatrix} 6 & 3 & 2 \\ -2 & 3 & -2 \end{bmatrix}$$

\square





Edit Action Interactive

$\begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix} \times \begin{bmatrix} -6 & -3 & -2 \\ -2 & 3 & -2 \end{bmatrix}$

$\begin{bmatrix} 6 & 3 & 2 \\ -2 & 3 & -2 \end{bmatrix}$

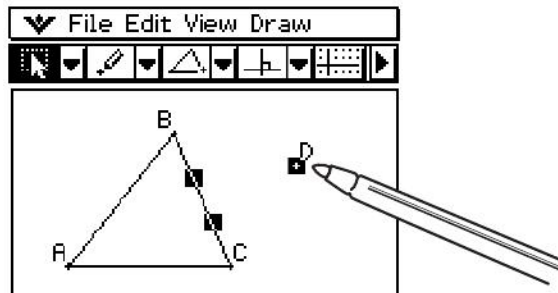
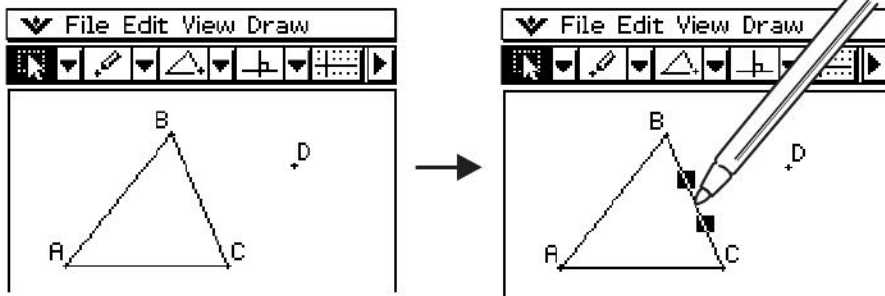


File Edit View Draw

$\begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix} \times \begin{bmatrix} -6 & -3 & -2 \\ -2 & 3 & -2 \end{bmatrix}$

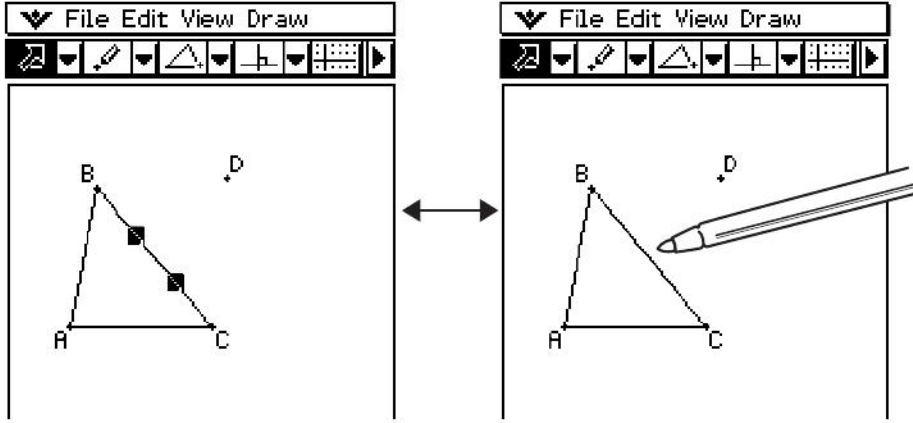
$\begin{bmatrix} 6 & 3 & 2 \\ -2 & 3 & -2 \end{bmatrix}$

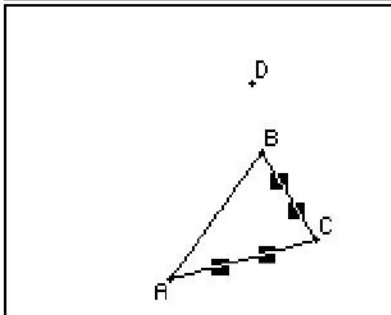
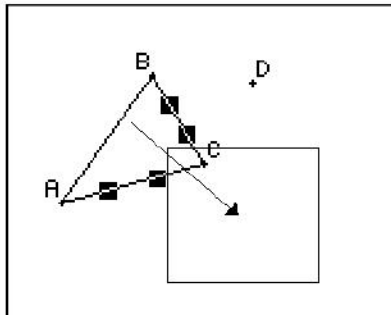
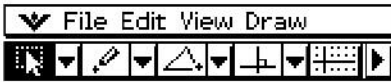
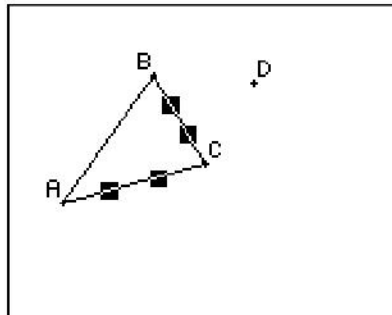


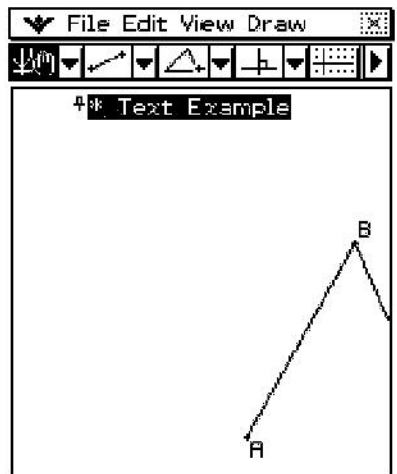
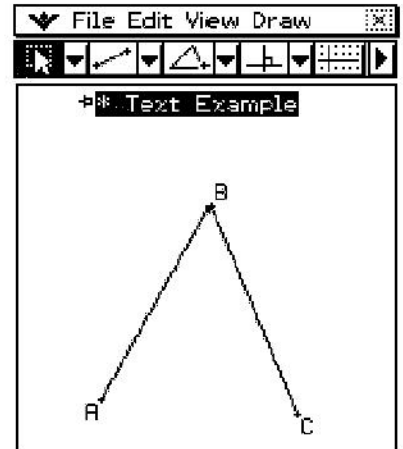


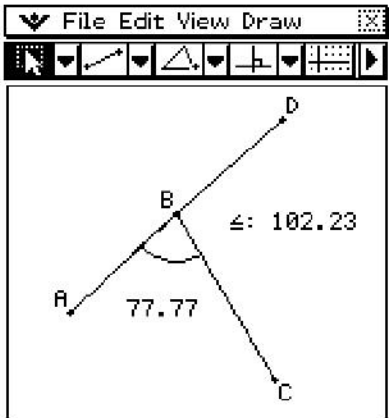


2



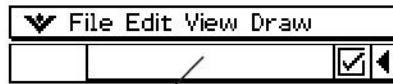
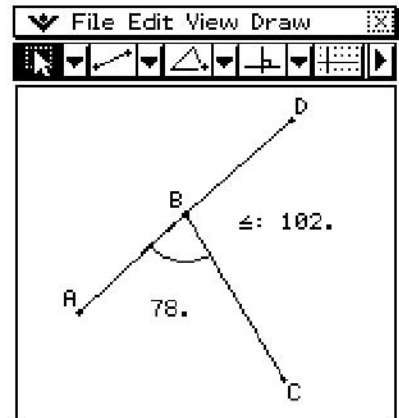






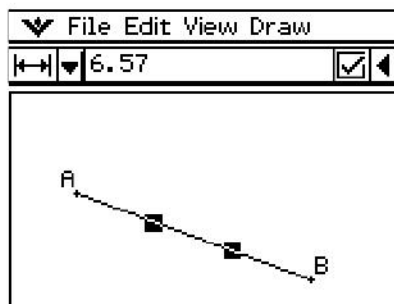
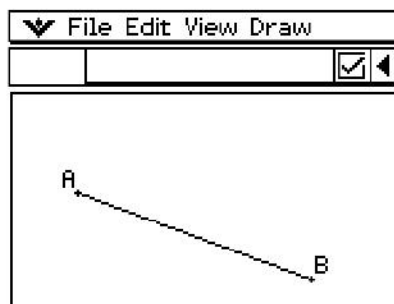
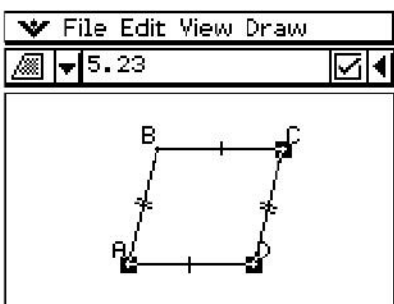
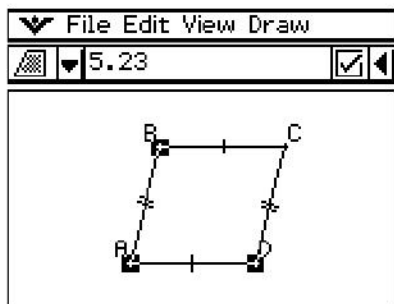
The screenshot shows a 'Number Format' dialog box with a list of number formats. The list includes 'Default', 'Normal 1', 'Normal 2', 'Fix 0', 'Fix 1', 'Fix 2', 'Fix 3', 'Fix 4', 'Fix 5', 'Fix 6', 'Fix 7', 'Fix 8', 'Fix 9', 'Sci 0', 'Sci 1', 'Sci 2', 'Sci 3', 'Sci 4', 'Sci 5', and 'Sci 6'. The 'Fix 0' option is selected. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

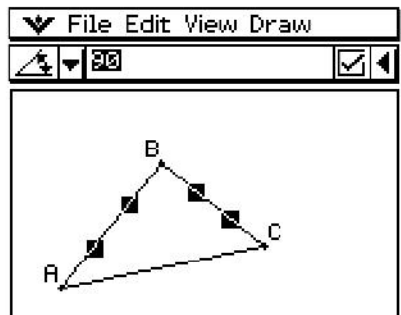
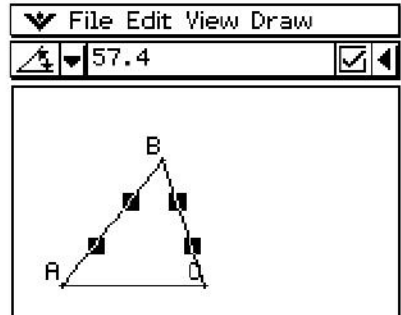
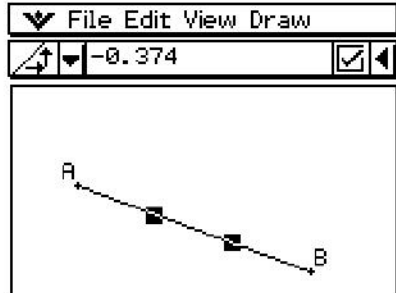
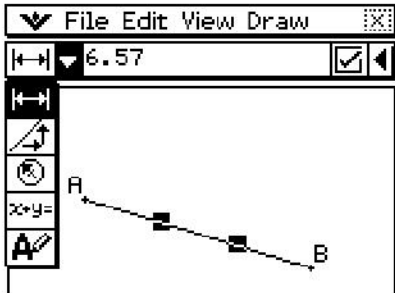


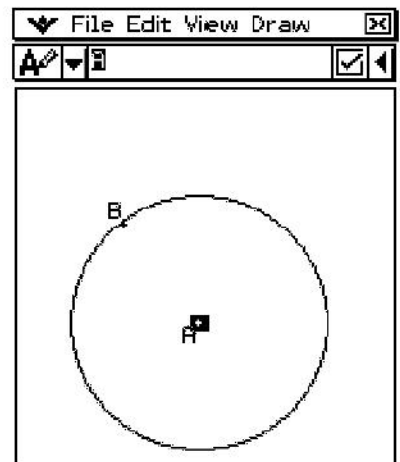
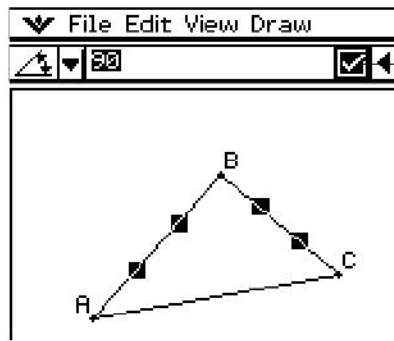


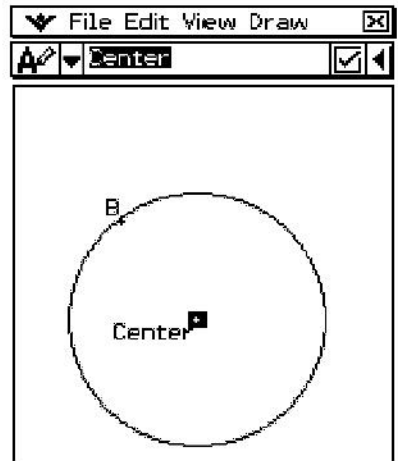
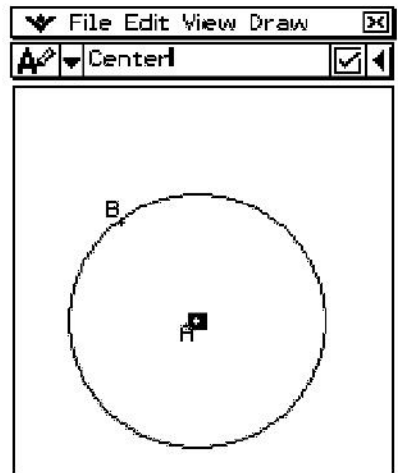














View Window

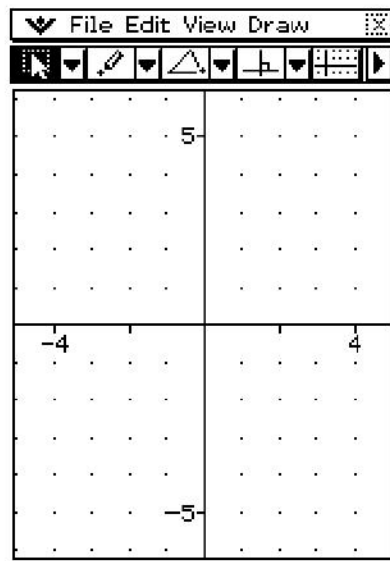
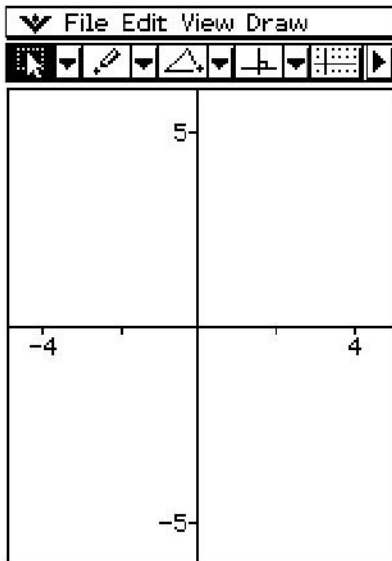
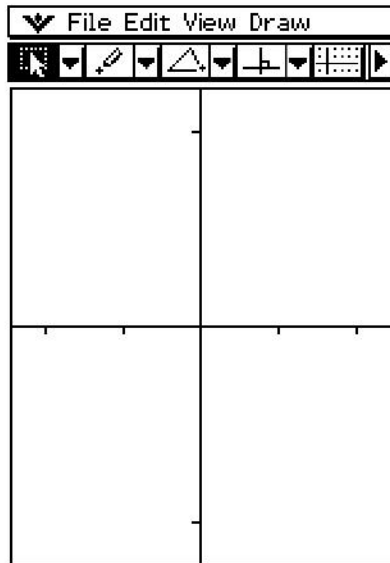
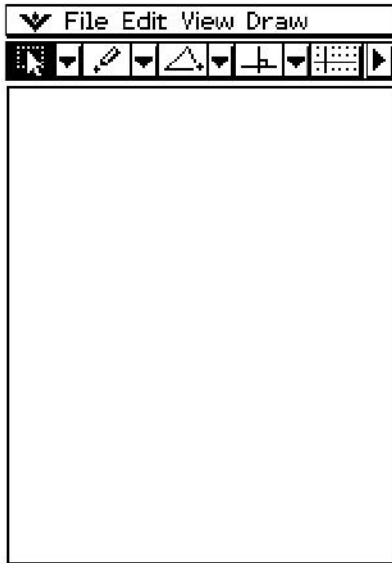
Geometry

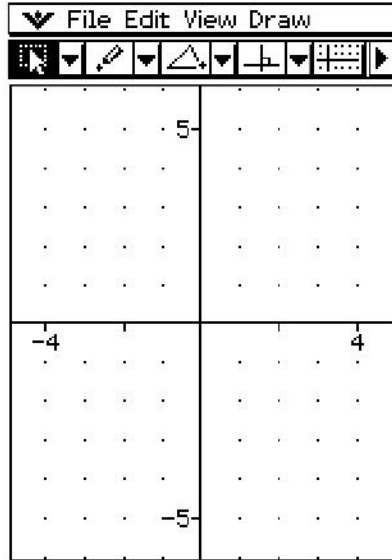
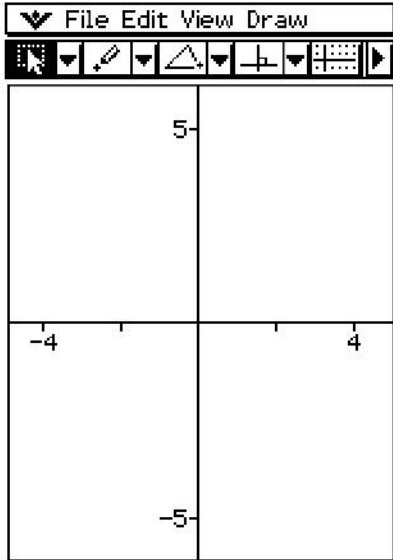
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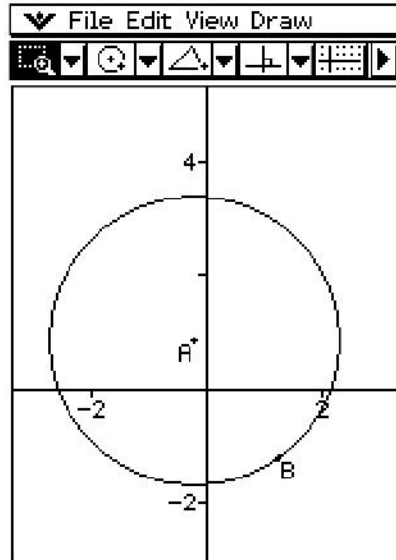
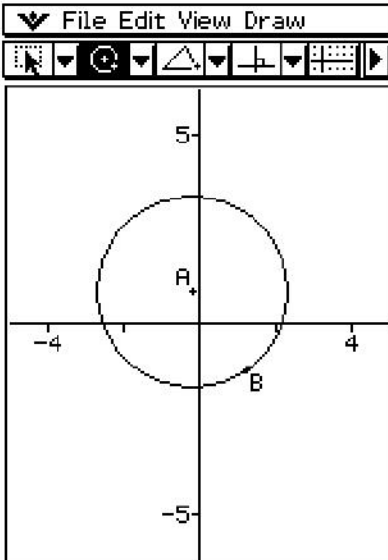
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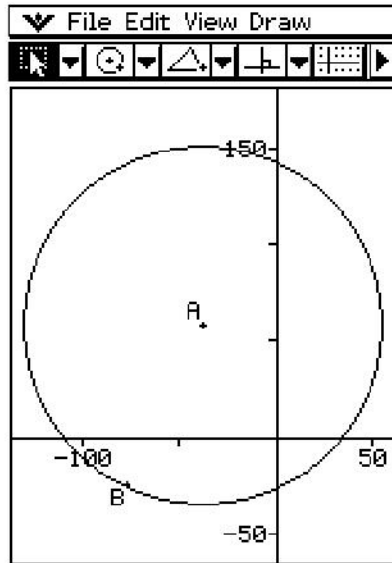
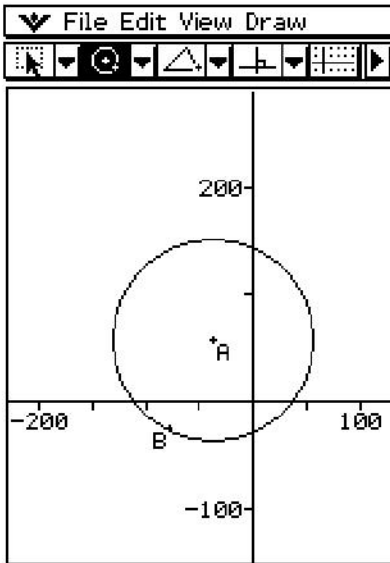
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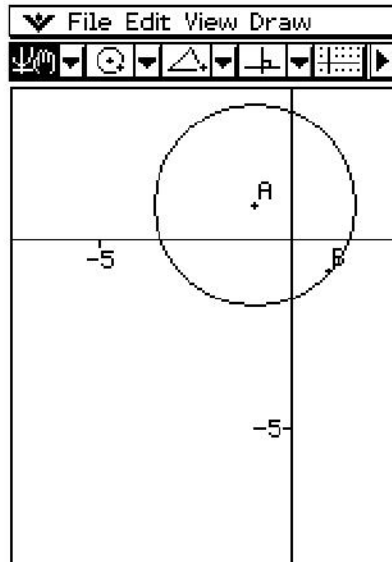
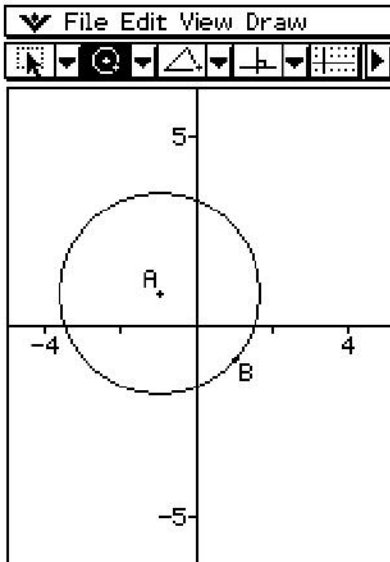


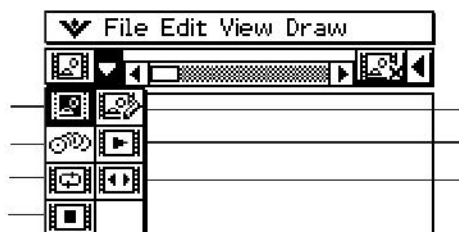
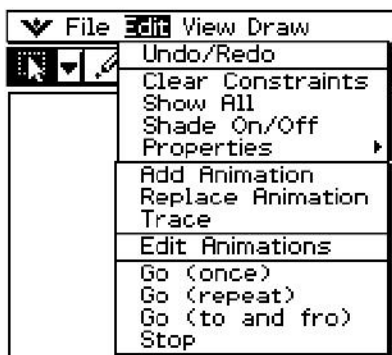


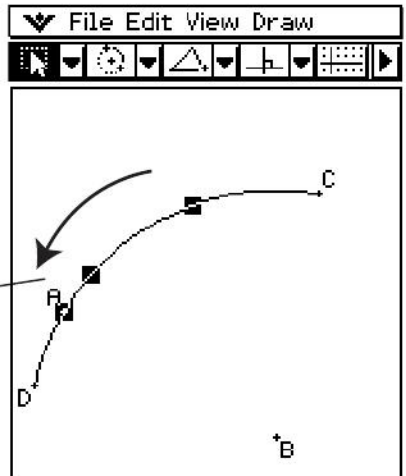
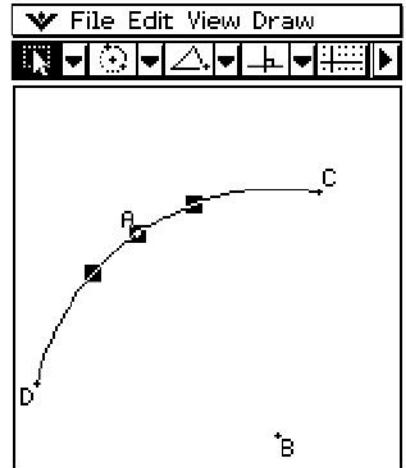
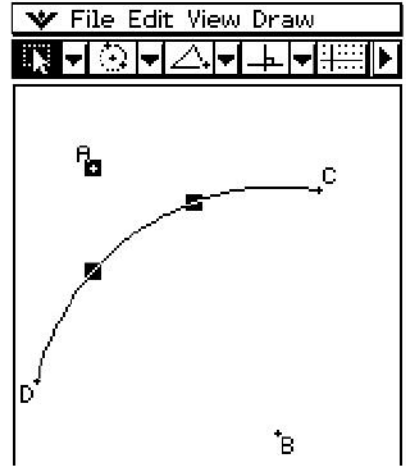




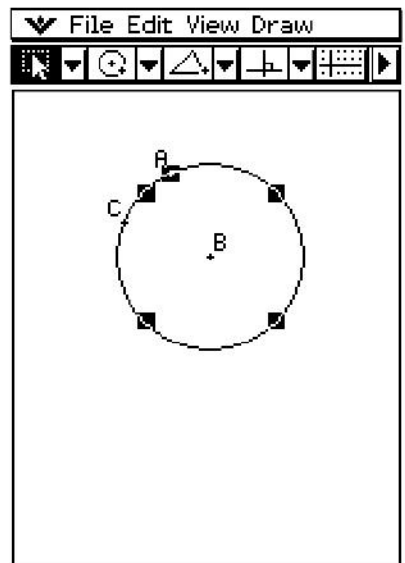
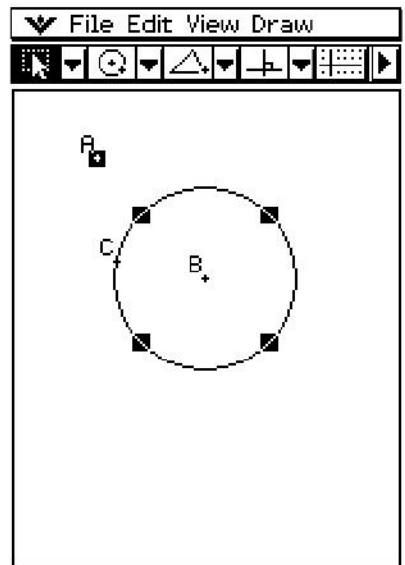


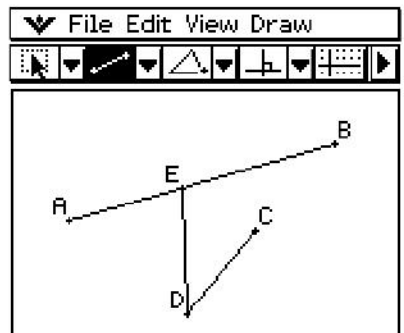
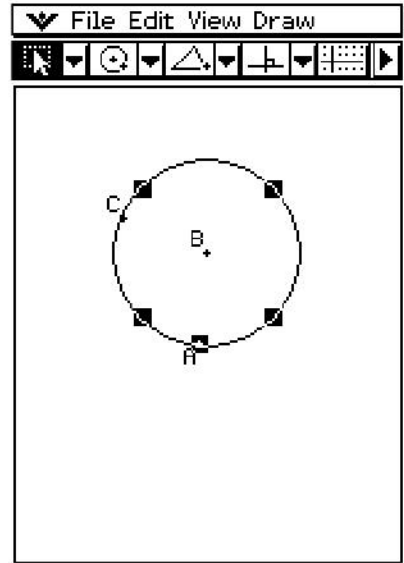


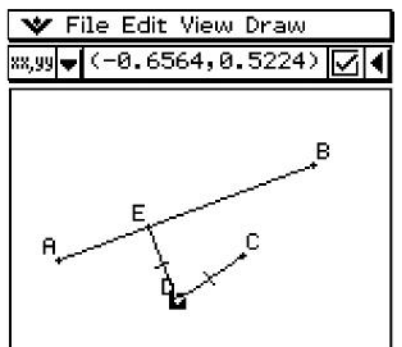
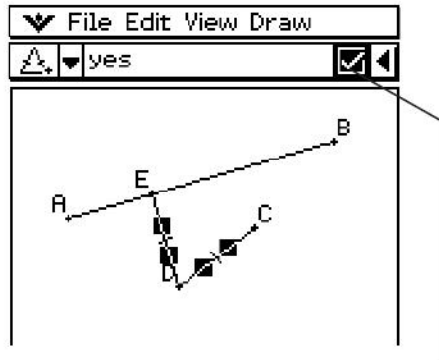
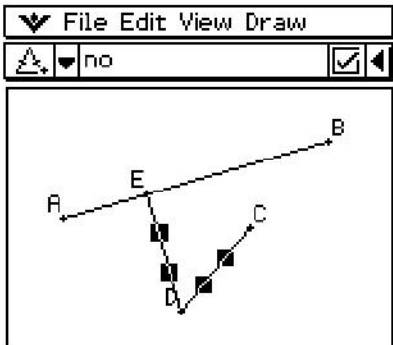
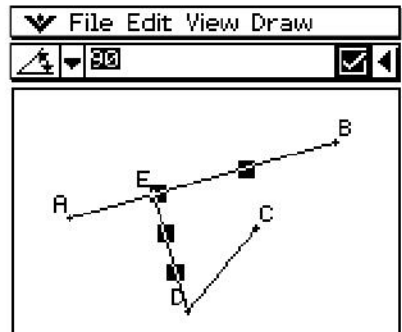


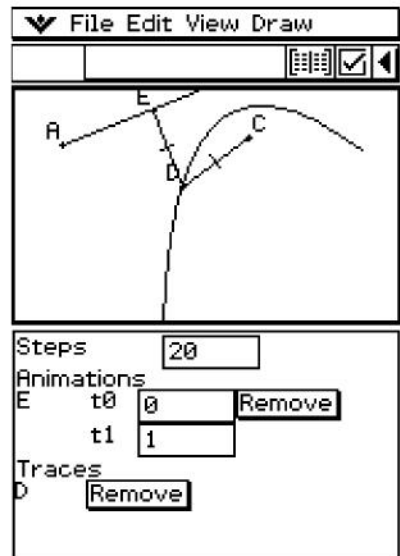
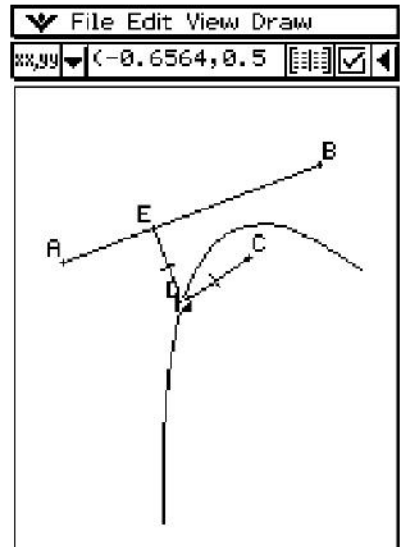


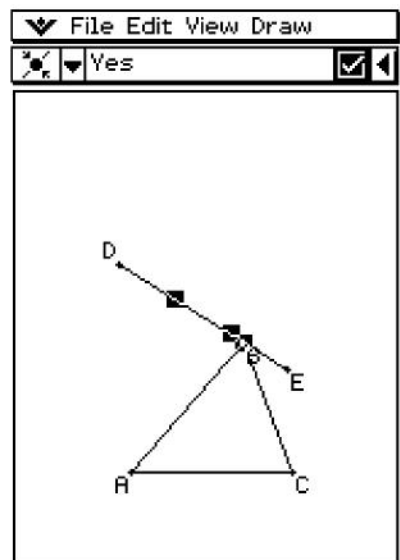
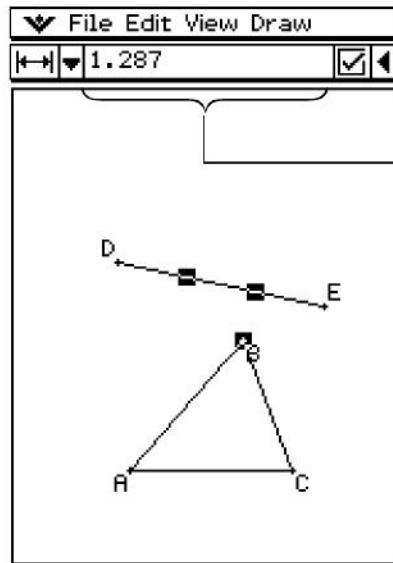
ESC

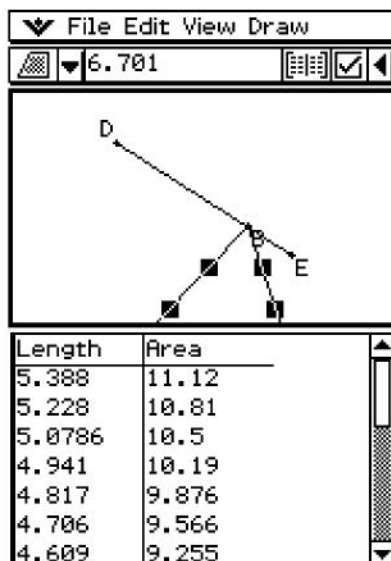
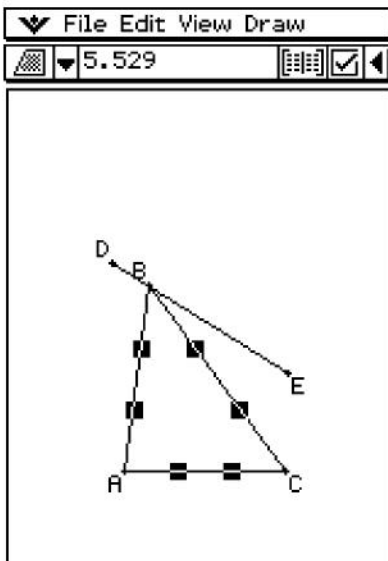
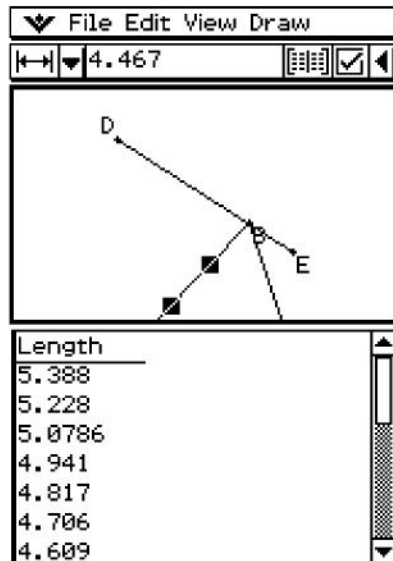
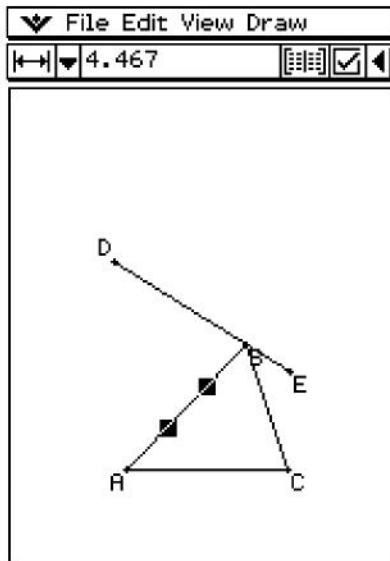


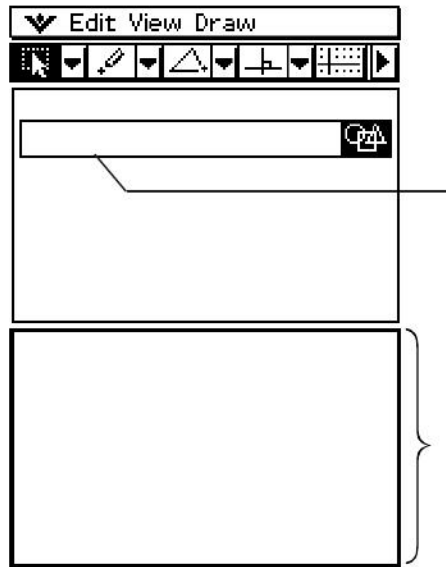














▼ Edit View Draw

Input field:

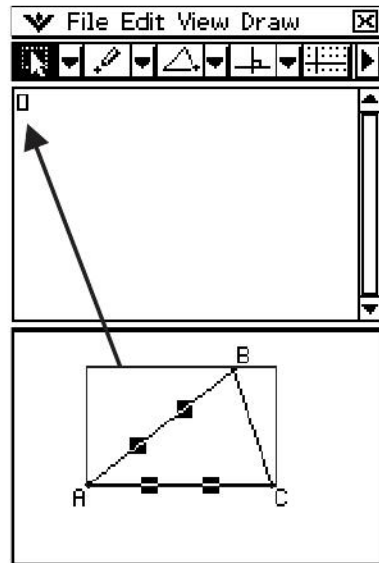
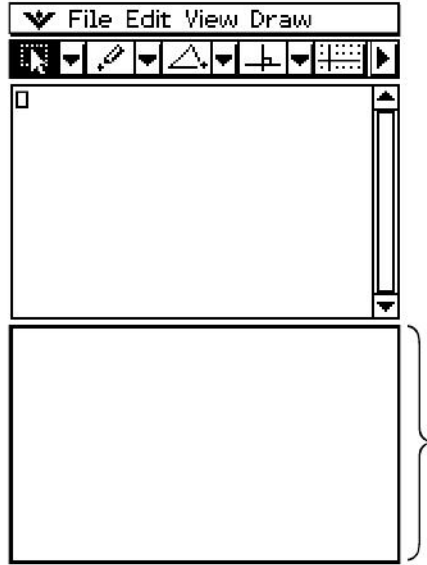
The diagram shows a circle with a center point labeled 'A'. Four small squares, each with a diagonal line, are positioned at the corners of a bounding box around the circle, labeled 'B'. An arrow points from the top-right handle 'B' to the input field above.

▼ File Edit Insert Action

Equation input field: $x^2+y^2+1x-0.5y-15.4=0$

The diagram shows a circle with a center point labeled 'A'. Four small squares, each with a diagonal line, are positioned at the corners of a bounding box around the circle, labeled 'B'.







File Edit Insert Action

link test

$x^2+y^2-4=0$

Alg Standard Cplx Rad



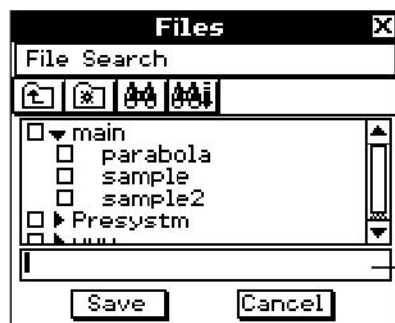
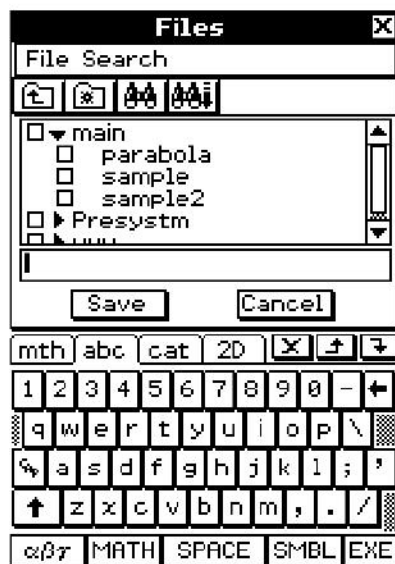
File Edit Insert Action

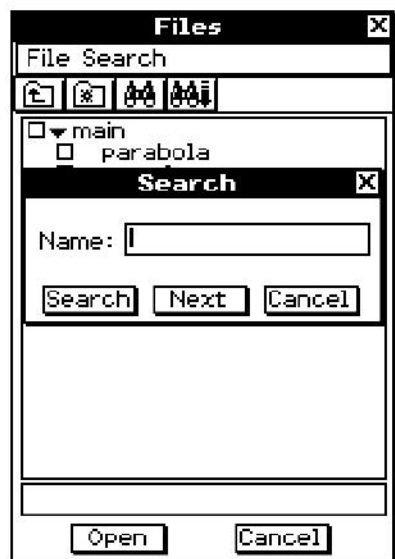
link test

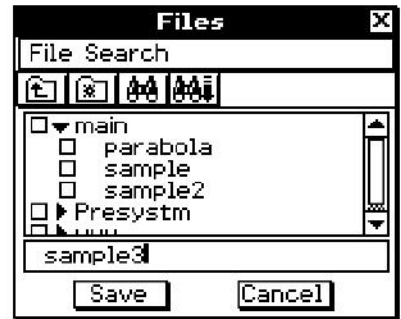
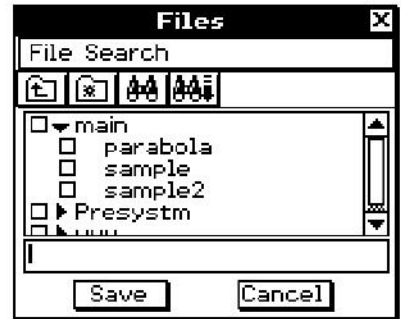
$x^2+y^2-1=0$

Alg Standard Cplx Rad

















I

▼ Edit Solve ◆

Solve $\frac{1}{x}$ $\frac{1}{y}$ $\frac{1}{z}$ $\frac{1}{w}$ $\frac{1}{v}$

Equation:
□

Rad Cplx 1E-10

A screenshot of a calculator's 'Solve' window. The window title is 'Edit Solve'. Below the title is a toolbar with 'Solve' and several icons for variables (1/x, 1/y, 1/z, 1/w, 1/v). The main area is labeled 'Equation:' and contains a single input field with a cursor. A large right-facing curly bracket is positioned to the right of the input field. At the bottom, there is a status bar showing 'Rad Cplx 1E-10' and a calculator icon.







▼ Edit Solve ♦

Solve

Equation:
 $x^3+4 \cdot x^2+x-2$

Sheet1 | Sheet2 | Sheet3 | ◀ ▶

y1 = $x^3+4 \cdot x^2+x-2$ [—]

y2: 0

y3: 0

y4: 0

y5: 0

y6: 0

y7: 0

y8: 0





Convergence ✕

Input 1 to 13 for 1e-??

Result ✕

$x=26.692927$
Left-Right= $-1.9\text{E-}11$



10





I

File Edit Insert Action

The parametric equations for the path of ball are...

$$x(t) = t \times v_0 \times \cos(\theta)$$
$$y(t) = t \times v_0 \times \sin(\theta) - \frac{g \times t^2}{2}$$

If a ball were thrown at a 45 degree angle at 40 feet per second, the graph of the ball's motion is...

$$g = 32 \frac{\text{ft}}{\text{sec}^2} \quad v_0 = 40 \quad \theta = 45$$

Path of a ball

$$x(t) = t \times 40 \times \cos(45)$$
$$y(t) = t \times 40 \times \sin(45) - 16 \times t^2$$

Alg Standard Cplx Deg

Edit Zoom Analysis

graph of the ball's motion is...

$$g = 32 \frac{\text{ft}}{\text{sec}^2} \quad v_0 = 40 \quad \theta = 45$$

Path of a ball

$$x(t) = t \times 40 \times \cos(45)$$
$$y(t) = t \times 40 \times \sin(45) - 16 \times t^2$$

Deg Cplx



















File Edit Insert Action

B

Text row:
You can input text using
Text row.

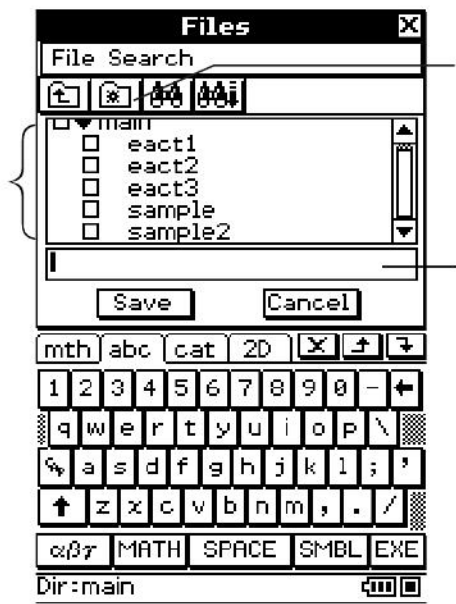
Calculation row:
simplify((1+ $\sqrt{2}$)(2+ $\sqrt{2}$))
 $4+3\sqrt{2}$

Application data strip:
Triangle sample

Geometry Link row:
 $y=1.1 \cdot x+1.4$

Alg Standard Cplx Rad







Files [X]

File Search

[Home] [Back] [Forward] [Refresh]

- main
 - eact1
 - eact2
 - eact3
 - sample
 - sample2

[Save] [Cancel]

mth abc cat 2D [X] [Up] [Down]

1 2 3 4 5 6 7 8 9 0 - [Left]

q w e r t y u i o p \

a s d f g h j k l ; ' /

z x c v b n m , . /

αβγ MATH SPACE SMBL EXE

Dir:main [Home] [Back] [Forward] [Refresh]

Files [X]

File Search

[Home] [Back] [Forward] [Refresh]

- main
 - eact1
 - eact2
 - eact3
 - sample
 - sample2

[Open] [Cancel]

Dir:main [Home] [Back] [Forward] [Refresh]

Files [X]

File Search

[Home] [Back] [Forward] [Refresh]

- main
 - eact1
 - eact2
 - eact3
 - sample
 - sample2

[Open] [Save] [Cancel]

Dir:main [Home] [Back] [Forward] [Refresh]





File Edit Insert Action

0.5 1/3 B A $\sqrt{\square}$

Text row:
You can input text using Text row.

Calculation row:
simplify((1+ $\sqrt{2}$)(2+ $\sqrt{2}$))
4+3 $\cdot\sqrt{2}$

Application data strip:
Triangle sample \square

Geometry Link row:
 $y=1.1 \cdot x+1.4$

Alg Standard Cplx Rad \square



File Edit Insert Action \square

\square \square \square B A \square \square

\square



File Edit Insert Action

0.5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Text input mode
Text
Text

251/3

$\frac{251}{3}$

File Edit Insert Action

0.5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Text input mode
Text
Text

251/3

$\frac{251}{3}$



This is the example for word wrap function. When the text line is long, it automatically wrapped to next line.

2D math expression doesn't wrap to next line even if the expression is long.

$$\lim_{a \rightarrow 1} \int_a^b x^2 e^{ax} \left(\sin(x) + \frac{1}{x} + \cos(x) \right) dx$$


This is the example for word wrap function. When the text line is long, it automatically wrapped to next line.

2D math expression doesn't wrap to next line even if the expression is long.

$$\lim_{a \rightarrow 1} \int_a^b x^2 e^{ax} \left(\sin(x) + \frac{1}{x} + \cos(x) \right) dx$$




B

File Edit Insert Action

Plain text **Bold text** Plain text
text text text

B

B

File Edit Insert Action

Plain text **Bold text** Plain text
text text text



File Edit Insert Action



File Edit Insert Action

Text input mode
Text
Text

251/3

$\frac{251}{3}$

File Edit Insert Action

Text input mode
Text
Text

251/3

$\frac{251}{3}$

251/3		$\frac{251}{3}$
$2x^2+3x^2+x+2x+1$		$5 \cdot x^2+3 \cdot x+1$
□		





▼ File Edit Insert Action	
[Icons: Bold, Italic, Underline, Text Color, Background Color, Font Size, Paragraph Style]	
5→ <i>a</i>	5
10→ <i>b</i>	10
<i>a</i> + <i>b</i>	15
<i>a</i> - <i>b</i>	-5
<i>a</i> / <i>b</i>	$\frac{1}{2}$
□	

▼ File Edit Insert Action	
[Icons: Bold, Italic, Underline, Text Color, Background Color, Font Size, Paragraph Style]	
5→ <i>a</i>	5
20→ <i>b</i>	20
<i>a</i> + <i>b</i>	25
<i>a</i> - <i>b</i>	-15
<i>a</i> / <i>b</i>	$\frac{1}{4}$
□	

Example Graph 









▼ Edit View Draw

Geometry sample

▼ Edit View Draw

Geometry sample





File Edit Insert Action

Save Undo Bold Italic Geometry

Geometry sample

Trapezoid

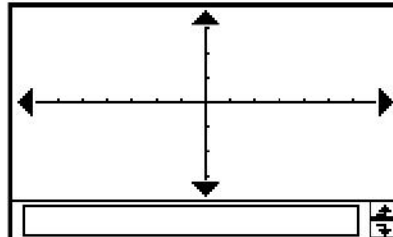
Edit Zoom Analysis

Table View View Grid View

Geometry sample

Trapezoid

Graph example



Rad Cplx





▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3

y1=sin(x)+x [—] ▲
 y2=x-2 [—] ▲
 y3: []
 y4: []
 y5: []
 y6: []
 y7: []
 y8: []

Rad Cplx



▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3

y1=sin(x)+x [—] ▲
 y2=x-2 [—] ▲
 y3: []
 y4: []
 y5: []
 y6: []
 y7: []
 y8: []

Rad Cplx

▼ File Edit Insert Action

Geometry sample

Trapezoid

Graph example

sin(x)+x





▼ Edit

✂ 📄 📁 📋

Exterior \angle of a \triangle

$m\angle A + m\angle B = ?$

Math notes

75.01+40.4

Math class 10/24/02
-Remember to tap the
Geometry expand button.

-In Geometry, select an
angle, copy its measure
from the measurement box
and then paste it into
eActivity.
My ClassPad is fun!



▼ File Edit Insert Action

📁 📄 📋 B

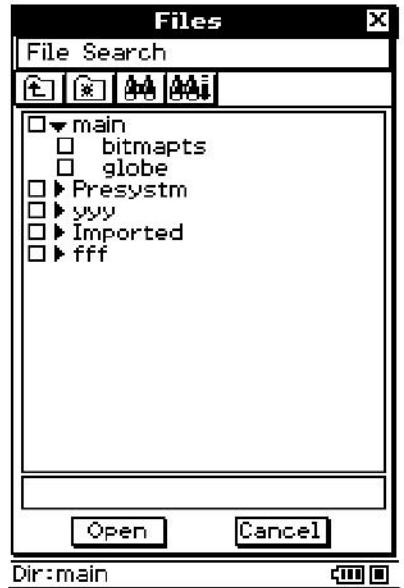
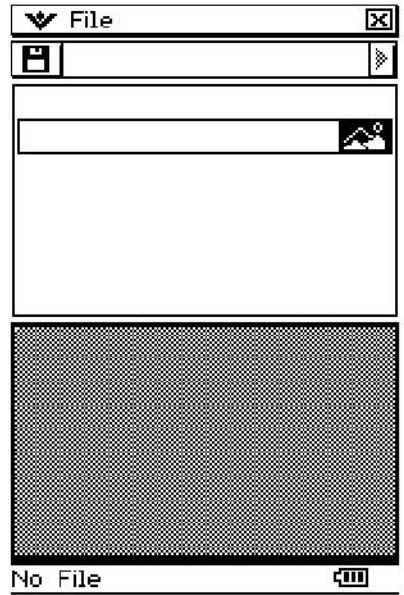
Exterior \angle of a \triangle

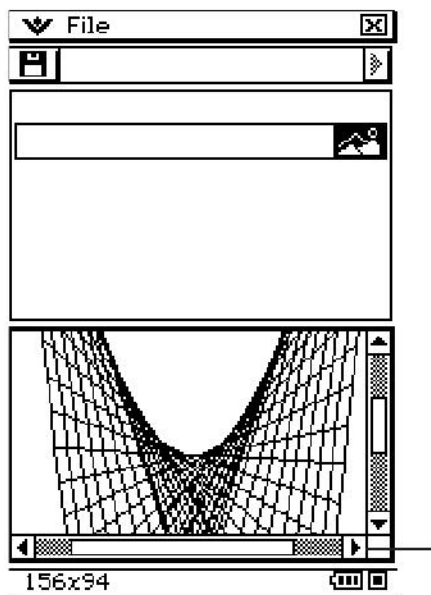
$m\angle A + m\angle B = ?$

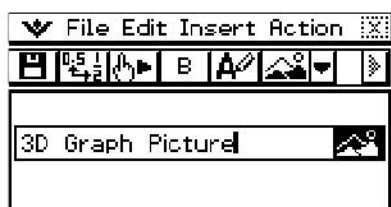
Math notes

75.01+40.4











?

?

File Edit Insert Action

Strip-1

Strip-2

Strip-3

Align Standard Real Rad

Edit

This is Strip Help.

3

7

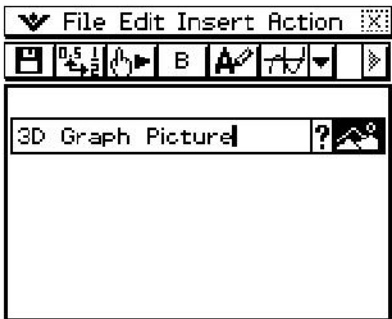
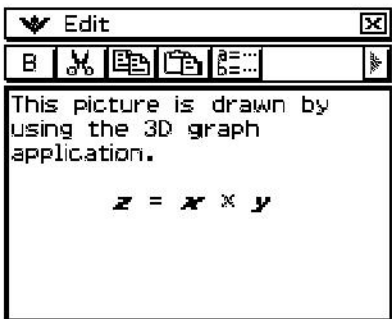
-7

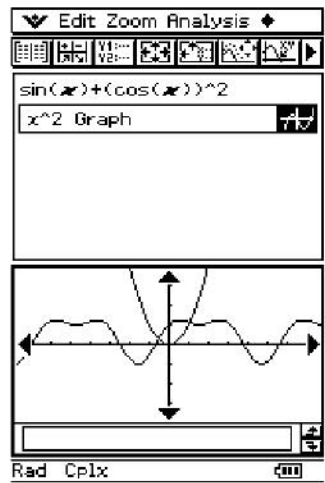
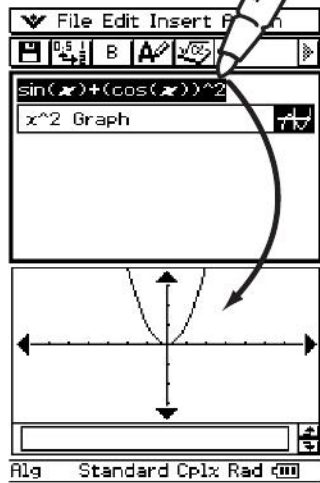
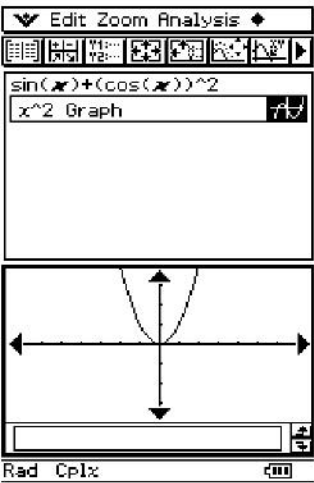
-3

Edit

3D wireframe plot of a parabolic surface









File Edit Insert Action

link test

$8x^2+y^2-4=0$

Alg Standard Cplx Rad



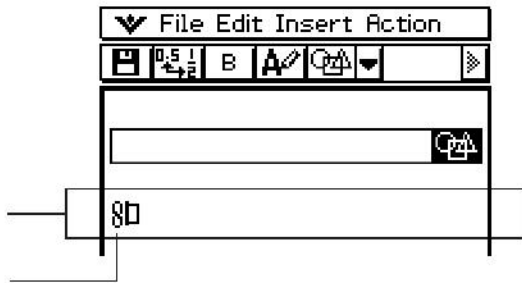
File Edit Insert Action

link test

$8x^2+y^2-1=0$

Alg Standard Cplx Rad





File Edit Insert Action

$\sigma y = 1.91 \cdot x + 0.983$

Algebra Standard Complex Rad $\text{C} \text{M} \text{D}$

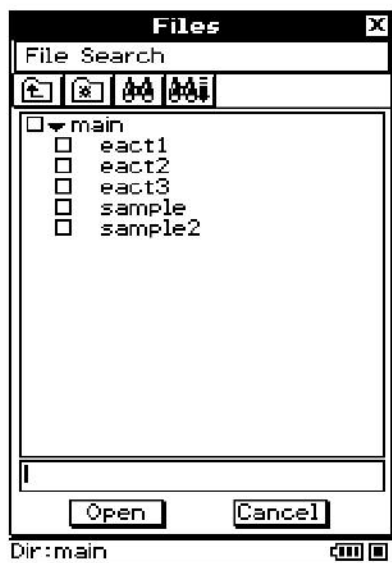


File Edit Insert Action

$\sigma y = x + 2$

Algebra Standard Complex Rad $\text{C} \text{M} \text{D}$







File Edit Insert Action

The parametric equations for the path of ball are...

$$x(t) = t \times v_0 \times \cos(\theta)$$
$$y(t) = t \times v_0 \times \sin(\theta) - \frac{g \times t^2}{2}$$

If a ball were thrown at a 45 degree angle at 40 feet per second, the graph of the ball's motion is...

$$g = 32 \frac{\text{ft}}{\text{sec}^2} \quad v_0 = 40 \quad \theta = 45$$

Path of a ball

$$x(t) = t \times 40 \times \cos(45)$$
$$y(t) = t \times 40 \times \sin(45) - 16 \times t^2$$

Alg Standard Cplx Deg



File Edit Insert Action

Example containing two graphs

Example1

Example2

Alg Standard Cplx Rad

File Edit Insert Action

Example containing two graphs

Example1

Example2

Alg Standard Cplx Rad

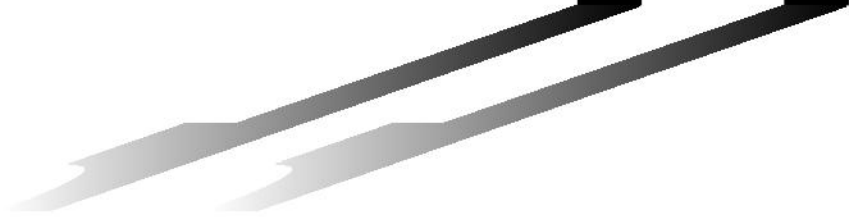








11



▼ Edit Zoom Analysis ▾

Sheet1 | Sheet2 | Sheet3

y1: $\frac{1}{3} \cdot x^2 - 2$

y2: 0

y3: 0

y4: 0

y5: 0

y6: 0

y7: 0

$(x+4)^2 + (y+2)^2 = 9$

Page 2/12



▼ Edit Zoom Analysis ▾

$(x+4)^2 + (y+2)^2 = 9$

Page 3/12



▼ Edit T-Fact Graph ▾

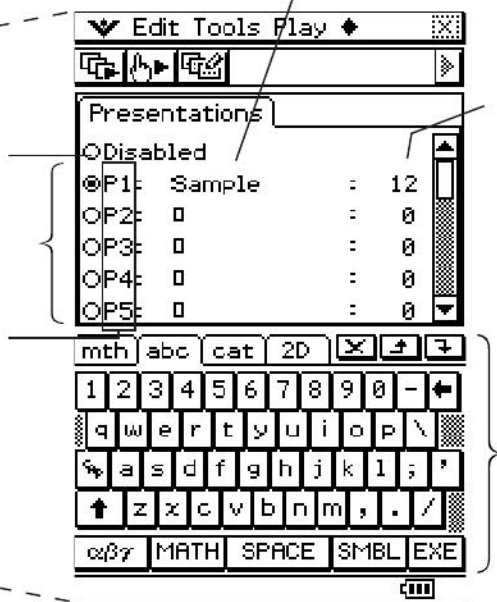
$(x+4)^2 + (y+2)^2 = 9$

x	y1
1	-1.666
2	-0.666
3	1
4	3.3333
5	6.3333

1

Page 4/12



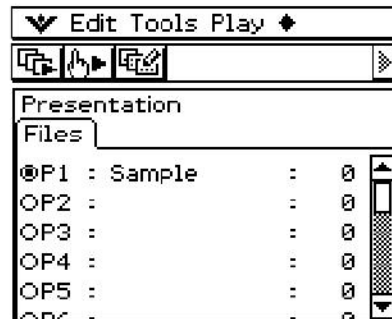
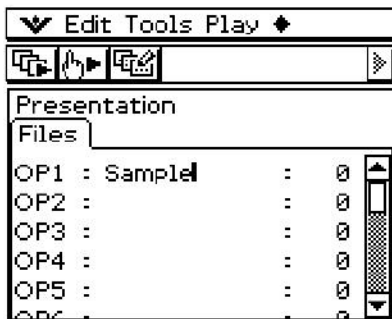
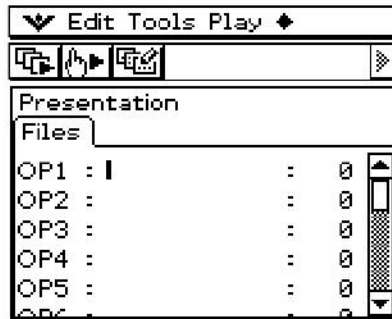














▼ Edit Tools Play ◆

☰ ▶ ☱

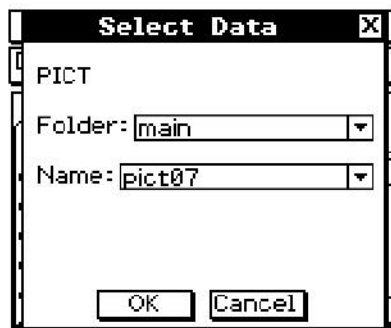
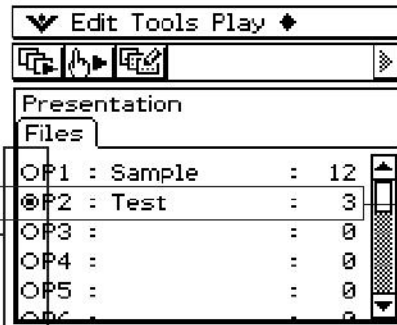
Presentation

Files

⊙P1 : Sample	:	12	▲ ▼
OP2 :	:	0	▲ ▼
OP3 :	:	0	▲ ▼
OP4 :	:	0	▲ ▼
OP5 :	:	0	▲ ▼
OP6 :	:	0	▲ ▼

A line from the '12' in the first row points to the 'Presentation' header.







▼ Edit Tools Play ◆

⏪ ⏩ ⏴ ⏵

Presentation

Files

ⓄP1 : Sample	:	12	▲
OP2 :	:	0	
OP3 :	:	0	
OP4 :	:	0	
OP5 :	:	0	
OP6 :	:	0	

Variable Manager ✕

Edit View All Search

Current: main ▼

<input type="checkbox"/>	Sample	14Vars	▲
<input type="checkbox"/>	Presystem	2Vars	
<input type="checkbox"/>	aaa	2Vars	
<input type="checkbox"/>	abc	2Vars	
<input type="checkbox"/>	main	3Vars	





▼ Edit Tools Play ◆

☰ 🔍 📄 📊

Presentation

Files

OP1	: Sample	: 12
OP2	:	: 0
OP3	:	: 0
OP4	:	: 0
OP5	:	: 0
OP6	:	: 0

▼ Edit Zoom Analysis ◆

☰ 🔍 📄 📊

Sheet1 | Sheet2 | Sheet3

$y1 = \frac{1}{3} \cdot x^2 - 2$ [—]

y2: 0

y3: 0

y4: 0

y5: 0

y6: 0

y7: 0

$(x+4)^2 + (y+2)^2 = 9$

Page 2/12

ESC



▼ Edit Type GMem ◆

7/8 9/10 11/12 y= y=

Sheet1 | Sheet2 | Sheet3 | ◀ ▶

$y_1 = \frac{1}{3} \cdot x^2 - 2$ [—] ▲ ▼

$y_2 = 0$

$y_3 = 0$

$y_4 = 0$

$y_5 = 0$

$y_6 = 0$

$y_7 = 0$

⌵ ⌶

Page 1/12



	⌵
	⌶

▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3

$y_1 = \frac{1}{3} \cdot x^2 - 2$ [—]

$y_2 =$ □

$y_3 =$ □

$y_4 =$ □

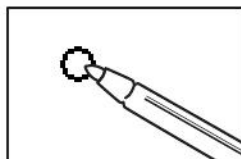
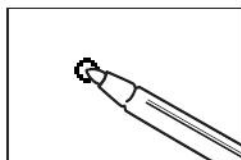
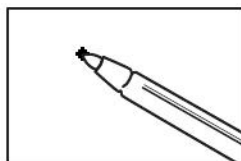
$y_5 =$ □

$y_6 =$ □

$y_7 =$ □

$(x+4)^2 + (y+2)^2 = 9$

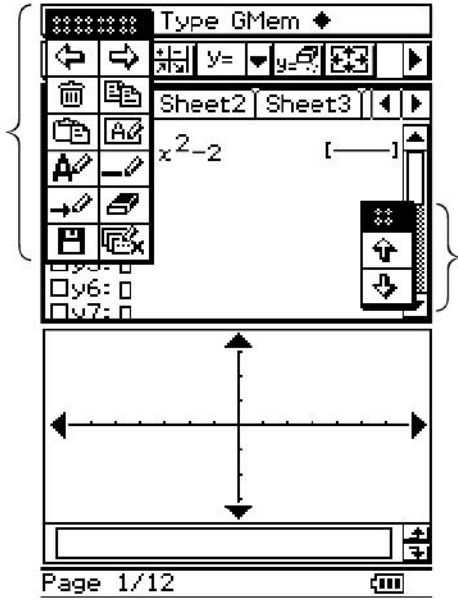
Page 2/12



ESC

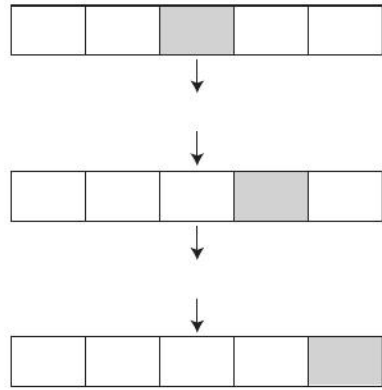
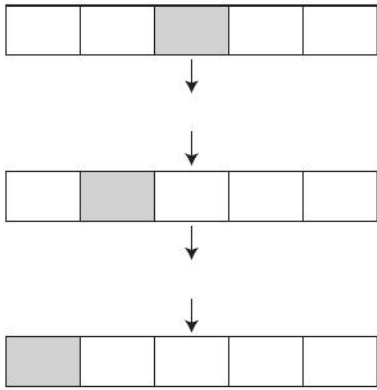


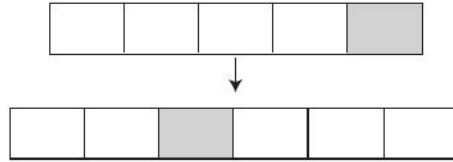




ESC

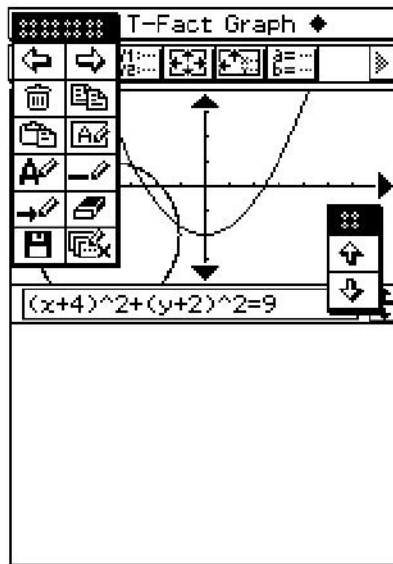






The screenshot shows the TI-84 Plus calculator's Zoom Analysis screen. The title bar reads "Zoom Analysis" with a dropdown arrow. The screen displays a coordinate plane with a parabola opening upwards and a circle. A "full-screen" label with a pointer indicates the zoomed-in view. The equation $(x+4)^2+(y+2)^2=9$ is shown in the bottom input field. The interface includes a top menu bar with navigation and analysis icons, a left-side toolbar with drawing and editing tools, and a right-side zoom control panel with up and down arrows.







Zoom Analysis

Sheet2 Sheet3

$x^2 - 2$

$(x+4)^2 + (y+2)^2 = 9$

Page 2/12





Zoom Analysis

Sheet2 Sheet3

$x^2 - 2$

$(x+4)^2 + (y+2)^2$

Page 2/12





Presentation [X]

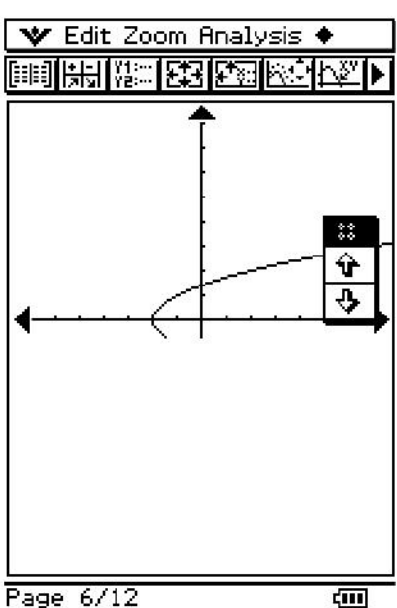
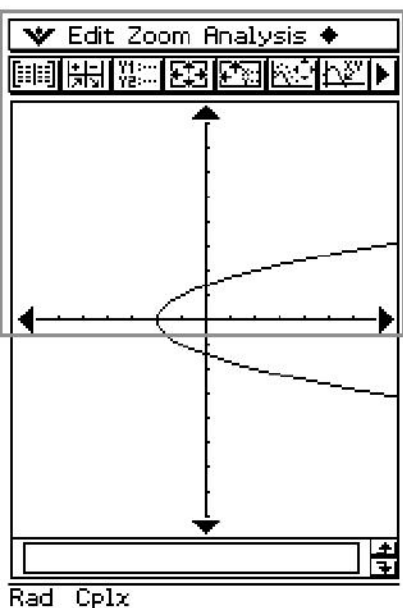
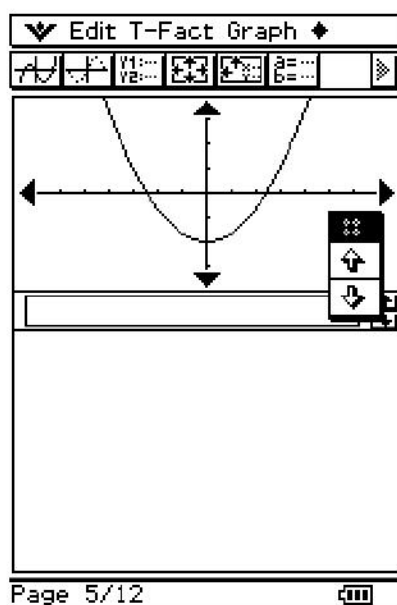
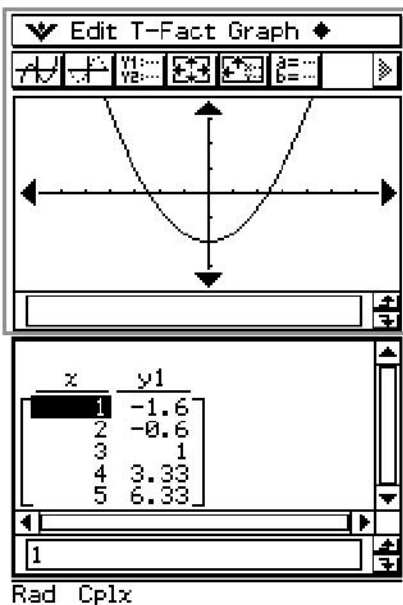
Screen Copy To
Outer Device [v]

Play Speed
4 [v]

Half Screen Capturing
 Repeat
 Page Number

[Set] [Cancel] [Default]















12






▼ Edit Run

Folder: ▼

Name: ▼

Parameter:

Program Loader 











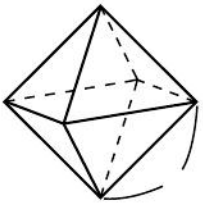















New File ✕

Type: Program(Normal) ▾

Folder: main ▾

Name: OCTA

OK Cancel

OCTA	N
SetDecimal	
Input A	
Print $\text{approx}(2 \times \sqrt{3}) \times A^2$	
Print $\text{approx}(\sqrt{2}) / 3 \times A^3$	















CAUTION	T
Be sure to check angle unit setting!	

aas	N
CAUTION() Input A Print approx(sin(A))	



▼ Edit Run

Folder:

Name:

Parameter:

A?

169.7409791
161.6917506
346.4101615
471.4045208
779.4228634
1590.990258





OCTA	N
SetDecimal	
Input A	
Print $\text{approx}(2 \times \sqrt{3} \times A^2)$	
Pause	
Print $\text{approx}(\sqrt{2} / 3 \times A^3)$	





▼ Edit Ctrl I/O Misc

Print A+B

Add1 N(A,B)

▼ Edit Run

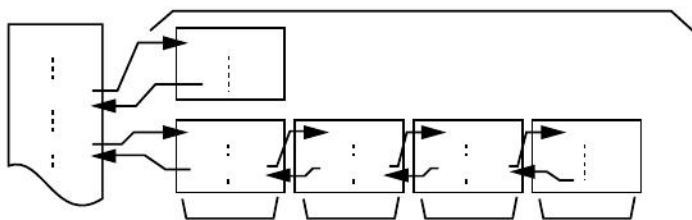
Folder: main

Name: Add1

Parameter: 1,2

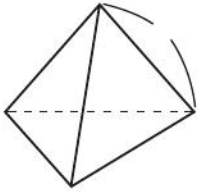
3











Open File [X]

Type: Program(Normal) ▾

Folder: main ▾

Name: OCTA ▾

OK Cancel




```
OCTA | N |
SetDecimal
Input A
Print approx(2*sqrt(3)*A^2)
Pause
Print approx(sqrt(2)/3*A^3)
```



Save As [X]

Type: Program (Normal)

Folder: [v]

Name:



84.87048957
40.42293766
173.2050808
117.8511302
389.7114317
397.7475644















f4	F	x
$x \times (x+1) \times (x-2)$		





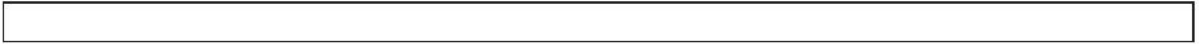
$f_4(-10)$	-1080
$f_4(10)$	880
\square	













--





Input

How many samples?



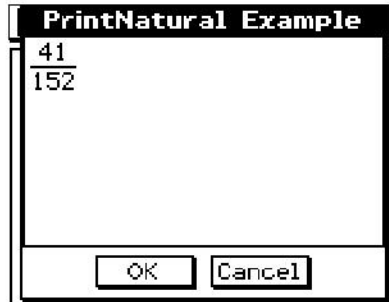


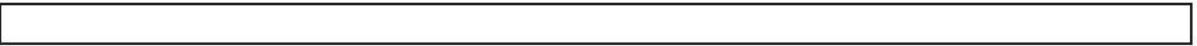
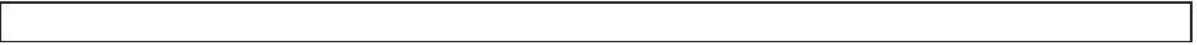
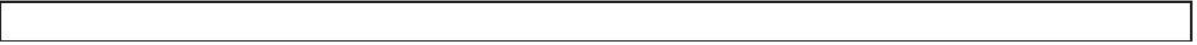
$\sqrt{\quad}$

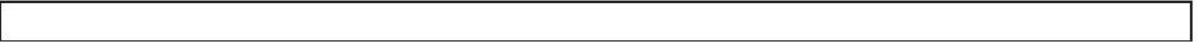
$\sqrt{\quad}$





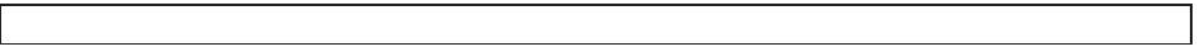





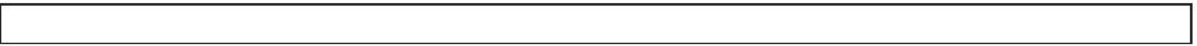


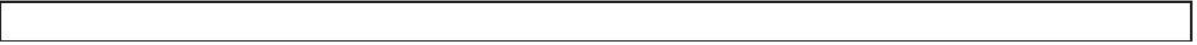






	list1	list2	list3	
1				
2				
3				
4				
5				
Cal				
◀ [1] = ▶				
Program Loader 				





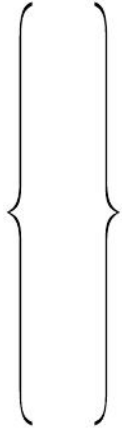


[]















...

xxxx

.....

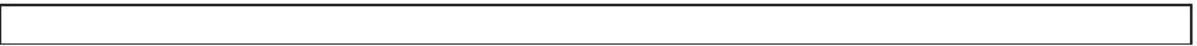
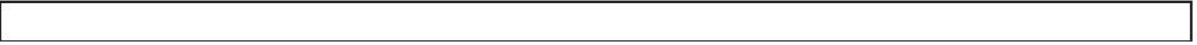
...





-











[]



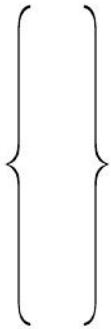
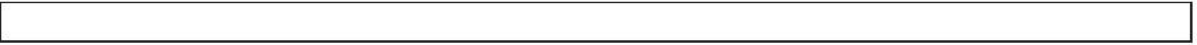
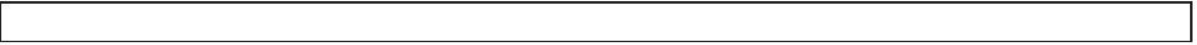


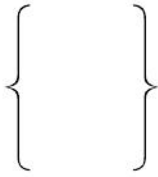
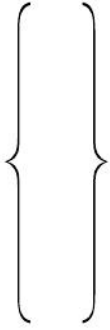
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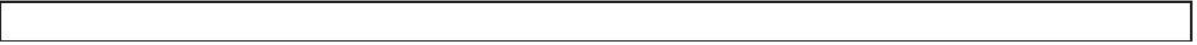


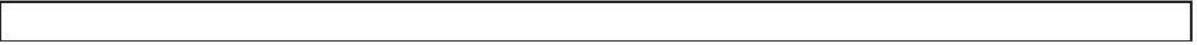


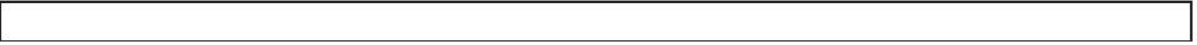


























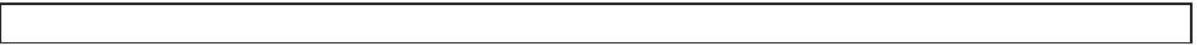
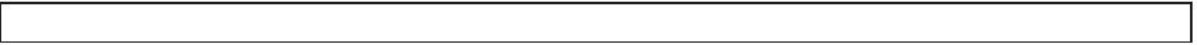
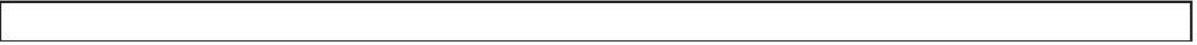




















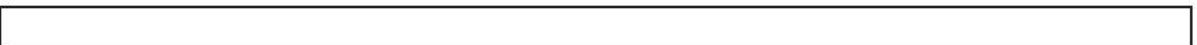
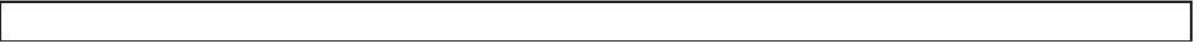


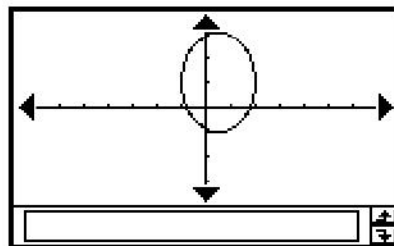
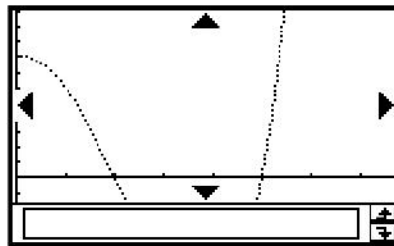








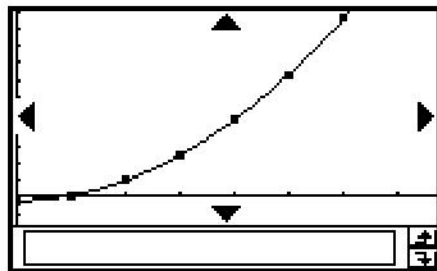






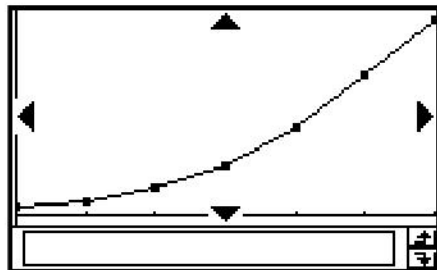
x	y1
0	-2
1	1
2	10
3	25
4	46

0





n	a_n
0	0.01
1	0.0197
2	0.0382
3	0.072
4	0.1285





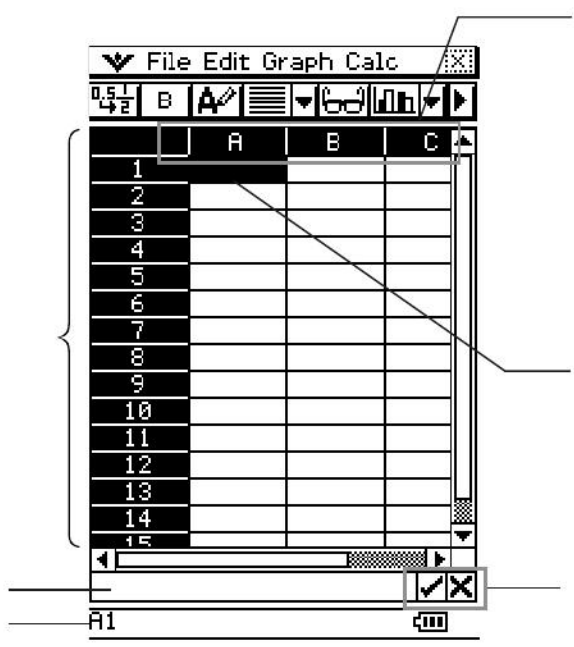


13





I





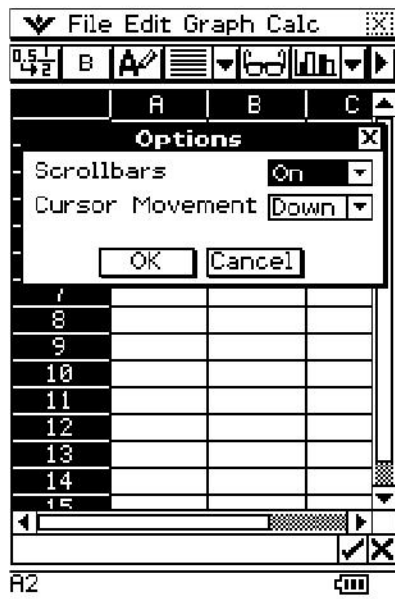






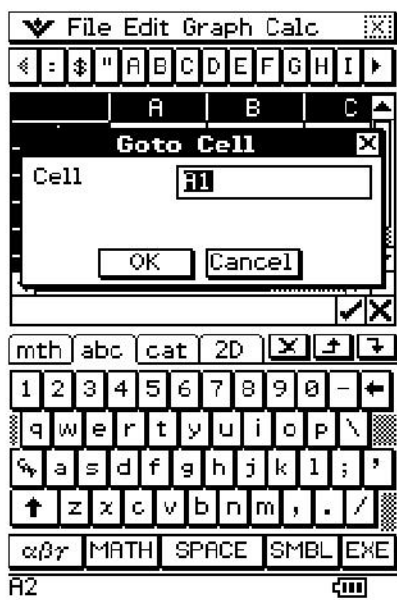


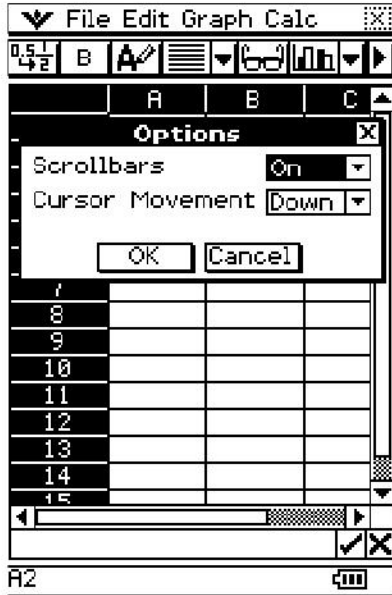




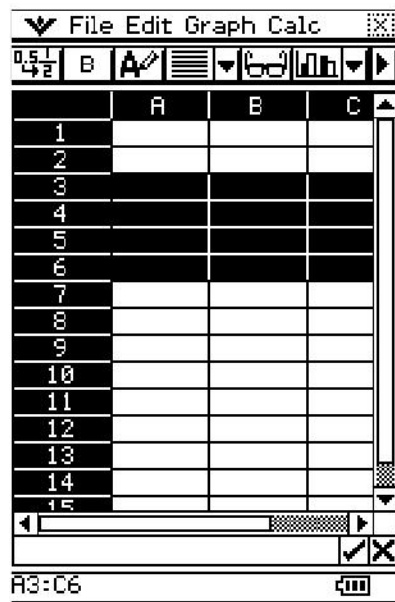
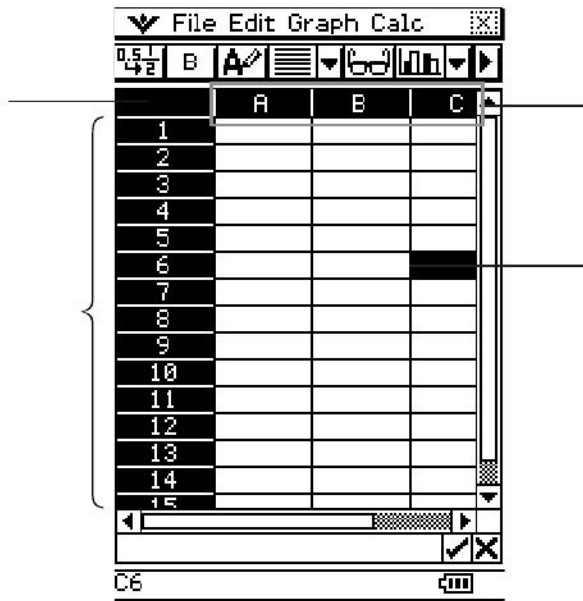














▼ Edit

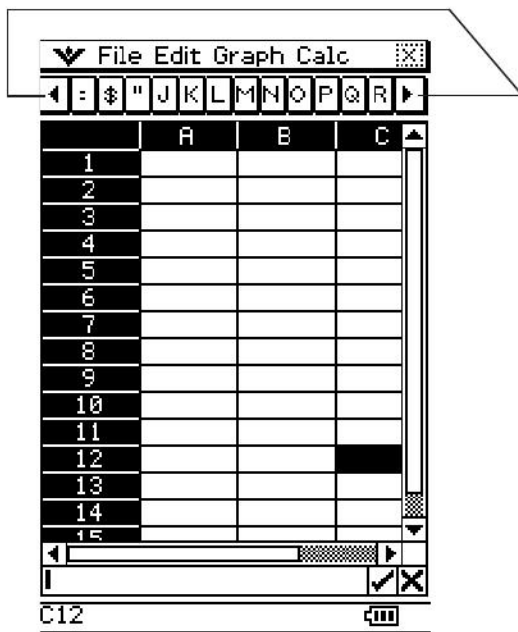
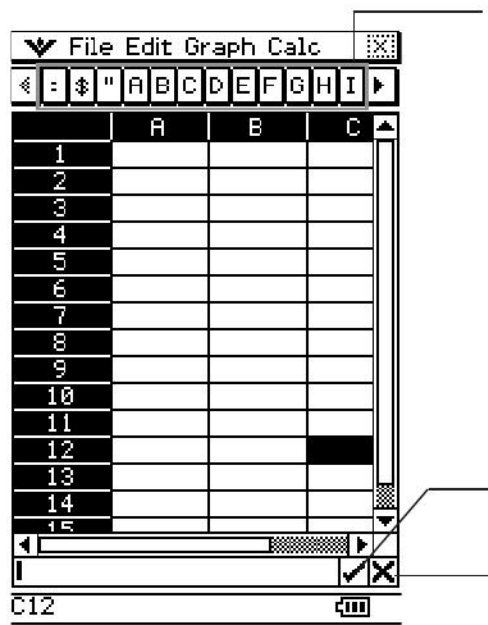
	A	B	C	D
1	4			
2	2			
3				
4	8			
5				
6				

=A1*A2

A4 Value:
8

A4 Formula:
A1*A2







	A	B	C
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

C12





ESC





File Edit Graph Calc			
B A [Icons]			
	A	B	
1	Data 1	2.50	
2	Data 2	2.30	
3	Data 3	2.51	
4			
5	Average	2.44	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

$= (B1+B2+B3)/3$ ✓ X

B5 2.436666667





File Edit Graph Calc

← : \$ " S T U V W X Y Z = →

	A	B	C
1			
2			
3			
4			
5			
6			

← →

=x^

mth abc cat 2D ✕ ↕ ↶

π θ i ∞ () , ÷ √ z t ←

log	ln	√	7	8	9	^ =
x²	e^x	x⁻¹	4	5	6	× ÷
(	)	|x|	1	2	3	+ -
[	]	(-)	0	.	ε	ans

TRIG CALC OPTN VAR EXE

A1

File Edit Graph Calc

← : \$ " S T U V W X Y Z = →

	A	B	C
1	x		
2			
3			
4			
5			
6			

← →

=diff<

mth abc cat 2D ✕ ↕ ↶

π θ i ∞ () , ÷ √ z t ←

Σ	∏	lim	7	8	9	^ =
diff	∫	int	4	5	6	× ÷
!	nPr	nCr	1	2	3	+ -
solv	dSlv	'	0	.	ε	ans

TRIG ← OPTN VAR EXE

B1





File Edit Graph Calc

◀ : \$ " S T U V W X Y Z = ▶

	A	B	C
1	x	1	
2	x^2	2*x	
3			
4			
5			
z			

◀ ▶

=x^row(A2) ✓ ✕





File Edit Graph Calc

0.5 1/4 2 B A [Grid] [Undo] [Redo] [Zoom] [Print]

	A	B	C	D
1				
2				
3	55			
4			A3	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

A3

C4 A3

File Edit Graph Calc

0.5 1/4 2 B A [Grid] [Undo] [Redo] [Zoom] [Print]

	A	B	C	D
1				
2				
3	55			
4			55	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

=A3

C4 55









Fill Sequence ✕

Expr.

Var.

Low

High

Step

Start



Fill Sequence [X]

Expr.

Var.

Low

High

Step

Start

OK Cancel

mth abc cat 2D [X] [↑] [↓]

π θ i ω $($ $)$ $,$ \Rightarrow \sqrt{x} y z r \leftarrow

log	ln	$\sqrt{\quad}$	7	8	9	\wedge	=
x^2	e^x	x^{-1}	4	5	6	\times	\div
$($	$)$	$|x|$	1	2	3	+	-
[	]	$(-)$	0	.	E	ans	

TRIG CALC OPTN VAR EXE

A1

File Edit Graph Calc [X]

0.5 1/4 2 B [X] [Y] [Z] [W] [V] [U] [T] [S] [R] [Q] [P] [O] [N] [M] [L] [K] [J] [I] [H] [G] [F] [E] [D] [C] [B] [A]

	A	B	C	D
1	1			
2	0.5			
3	0.33			
4	0.25			
5	0.2			
6	0.17			
7	0.14			
8	0.13			
9	0.11			
10	0.1			
11	0.09			
12	0.08			
13	0.08			
14	0.07			
15	0.07			

1 [X] [Y] [Z] [W] [V] [U] [T] [S] [R] [Q] [P] [O] [N] [M] [L] [K] [J] [I] [H] [G] [F] [E] [D] [C] [B] [A]

A1 1







File Edit Graph Calc

	A	B	C	D
1	1	8	4	
2	7	2	6	
3	3	6	9	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				



File Edit Graph Calc

- Undo/Redo
- Options
- AutoFit Selection
- Column Width
- Number Format
- Cell Viewer
- Goto Cell
- Select Range
- Fill Range
- Fill Sequence
- Insert
- Delete
- Cut
- Copy
- Paste
- Select All
- Sort
- Search
- Search Again
- Clear All

File Edit Graph Calc

	A	B	C	D
1	1	8	4	
2	7	2	6	
3	3	6	9	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

A6



File Edit Graph Calc

	A	B	C	D
1	1	8	4	
2	7	2	6	
3	3	6	9	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

[[1,8,4],[7,2,6],[3,6,9]]

A6

File Edit Graph Calc

	A	B	C	D
2	7	2	6	
3	3	6	9	
4				
5				
6				
7				

[[1,8,4],[7,2,6],[3,6,9]]

A6 Value:
 [[1,8,4],[7,2,6],[3,6,9]]

A6 Formula:
 [[1,8,4],[7,2,6],[3,6,9]]

A6 [[1,8,4],[7,2,6], ...]



File Edit Graph Calc

	A	B	C	D
2	7	2	6	
3	3	6	9	
4				
5				
6				
7				

[[1,8,4],[7,2,6],[3,6,9]]

A6 Value:

1	8	4
7	2	6
3	6	9

A6 Formula:

1	8	4
7	2	6
3	6	9

A6 [[1,8,4],[7,2,6], ...]









File Edit Graph Calc

0.5 1/2 B A [List Icon] [Undo] [Redo] [Print]

	A	B	C	D
1	1	8	4	
2	7	2	6	
3	3	6	9	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

2 [OK] [Cancel]

B2 2 [Print]





File Edit Graph Calc

0.51 4/2 B [Copy] [Paste] [Print] [Zoom] [Help]

	A	B	C	D
1	1	8	4	
2	7	2	6	
3	3	6	9	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

9 [OK] [Cancel]

A1:C3

File Edit Graph Calc

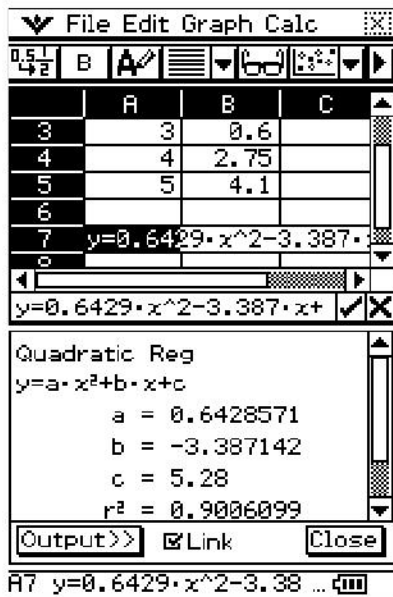
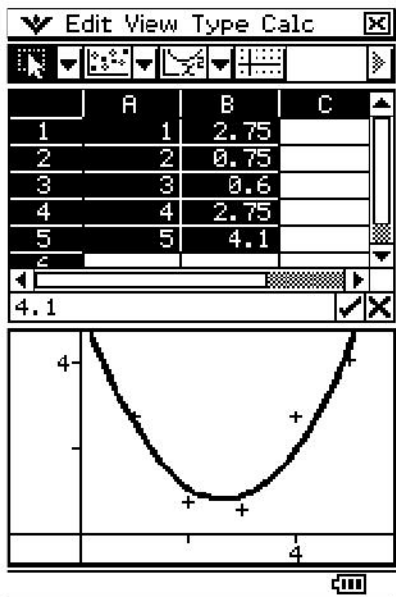
0.51 4/2 B [Copy] [Paste] [Print] [Zoom] [Help]

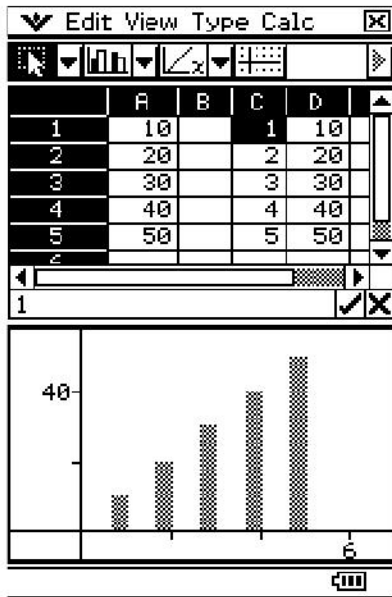
	A	B	C	D
1	1	8	4	
2	7	2	6	
3	3	6	9	
4				
5				
6				
7				
8	1	8	4	
9	7	2	6	
10	3	6	9	
11				
12				
13				
14				
15				

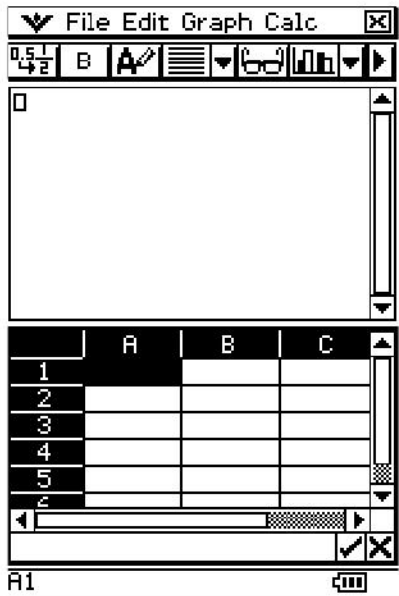
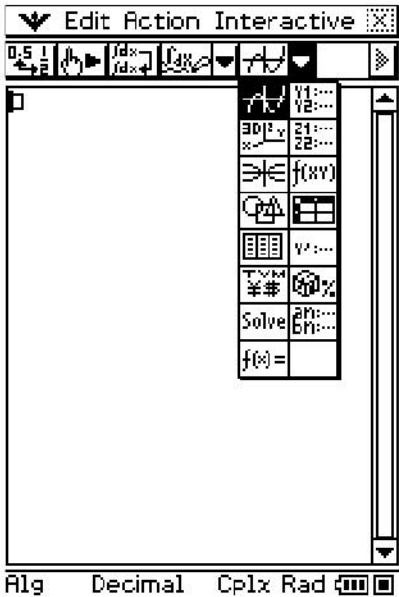
1 [OK] [Cancel]

A8 1











Edit Action Interactive

123→a 123
456→b 456
789→b 789
□

	A	B	C
1	579		
2	56088		
3			
4			
5			
6			

Alg Standard Real Rad

File Edit Graph Calc

New
Open
Save
Import
Export
Recalculate

123→a 123
456→b 456
789→b 789
□

	A	B	C
1	579		
2	56088		
3			
4			
5			
6			

A3



File Edit Graph Calc

B

123→a 123
456→b 456
789→b 789
□

	A	B	C
1	912		
2	97047		
3			
4			
5			
6			

A3





Edit Action Interactive

1234567890 \rightarrow NData
1234567890
(1,2,3,4,5) \rightarrow LData
{1,2,3,4,5}

1	2	3
4	5	6
7	8	9

\rightarrow MData

1	2	3
4	5	6
7	8	9

"Canyon" \rightarrow SData
"Canyon"

Alg Decimal Cplx Rad

Import

Variable

Cell





File Edit Graph Calc

0.51
4/2 B

	A	B	C
1	1.2E+9		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

1234567890

R1 1234567890

Import

Variable

Cell

File Edit Graph Calc

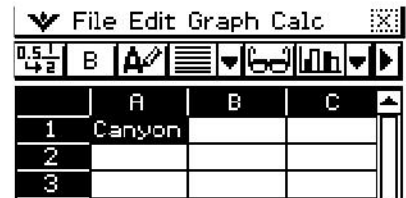
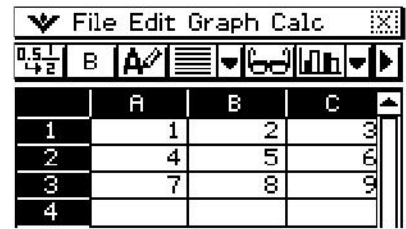
0.51
4/2 B

	A	B	C
1	1		
2	2		
3	3		
4	4		
5	5		
6			





[]







File Edit Graph Calc

< : \$ " A B C D E F G H I >

Export [X]

Variable DataS

Overwrite? [X]

This variable already exists. Overwrite?

OK Cancel

mth abc cat 2D [X] [↑] [↓]

1 2 3 4 5 6 7 8 9 0 - ←

q w e r t y u i o p \

~ a s d f g h j k l ; ' /

↑ z x c v b n m , . /

αβγ MATH SPACE SMBL EXE

R1 Canyon [III]





File Edit Graph Calc

	A	B	C
1	a	g	m
2	b	h	n
3	c	AB	o
4	d	j	p
5	aa	k	ca
6	f	l	r
7			
8			

Search

Search

Range

Search by

Look in

Match Case

Match Entire Cell

File Edit Graph Calc

	A	B	C
1	a	g	m
2	b	h	n
3	c	AB	o
4	d	j	p
5	aa	k	ca
6	f	l	r
7			
8			





	A	B	C
1	a	g	m
2	b	h	n
3	c	AB	o
4	d	j	p
5	aa	k	ca
6	f	l	r
7			



	A	B	C
1	a	g	m
2	b	h	n
3	c	AB	o
4	d	j	p
5	aa	k	ca
6	f	l	r



	B	C	D
1	g	m	
2	h	n	
3	AB	o	
4	j	p	
5	k	ca	
6	l	r	

	A	B	C
1	a+2	4	
2	b+1	10	
3	c+2	20	
4	d-3	30	
5	e+1	40	
6			
7			

Search	
Search	+1
Range	A1:B5
Search by	Columns
Look in	Formulas
<input type="checkbox"/> Match Case	
<input type="checkbox"/> Match Entire Cell	
OK Cancel	





	A	B	C
1	a+2	4	
2	b+1	10	
3	c+2	20	
4	d-3	30	
5	e+1	40	
6			

	A	B	C
1	a+2	4	
2	b+1	10	
3	c+2	20	
4	d-3	30	
5	e+1	40	
6			



	A	B	C
1	a+2	4	
2	b+1	10	
3	c+2	20	
4	d-3	30	
5	e+1	40	
6			



	A	B	C
1	a+2	4	
2	b+1	10	
3	c+2	20	
4	d-3	30	
5	e+1	40	
6			

	A	B	C
1	d	11	
2	b	12	
3	c	13	
4	a	15	
5	t	17	
6	y	19	
7	i	22	
8	o	25	
9			

Sort

Range:

Key Column:

Ascending

Descending





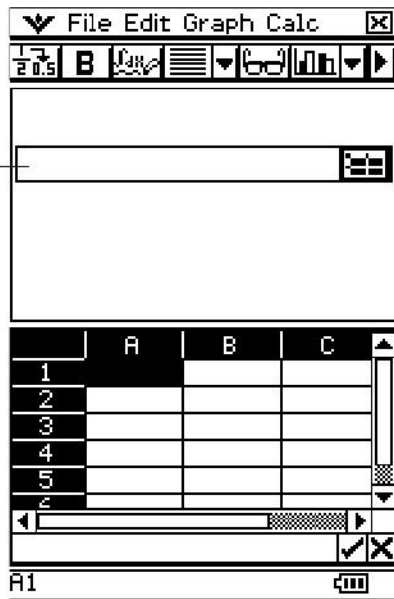
	A	B	C
1	a	15	
2	b	12	
3	c	13	
4	d	11	
5	i	22	
6	o	25	
7	t	17	
8	y	19	
9			

	A	B	C
1	a	15	
2	b	12	
3	c	13	
4	d	11	
5	i	22	
6	o	25	
7	t	17	
8	y	19	
9			



	A	B	C
1	y	19	
2	t	17	
3	o	25	
4	i	22	
5	d	11	
6	c	13	
7	b	12	
8	a	15	
9			







File Edit Insert Action

0.5 1/2 B A [Grid] [Dropdown]

1|

	A	B	C	D
1	1			
2	2			
3	3			
4	6			
5	Canyon			
6				

1

Alg Standard Real Rad [Mode]

File Edit Insert Action

0.5 1/2 B A [Grid] [Dropdown]

Canyon|

	A	B	C	D
1	1			
2	2			
3	3			
4	6			
5	Canyon			
6				

Canyon

Alg Standard Real Rad [Mode]



File Edit Insert Action

B

`=sum(A1:A3)`

	A	B	C	D
1	1			
2	2			
3	3			
4	6			
5	Canyon			
6				

`=sum(A1:A3)`

Alg Standard Real Rad

File Edit Insert Action

B

`[1`

	A	B	C	D
1	1	4	7	
2	2	5	8	
3	3	6	9	
4	6			
5	Canyon			
6				

`=sum(A1:A`

Alg Stand Real Rad

File Edit Insert Action

B

`[2 5 8]`

	A	B	C	D
1	1	4	7	
2	2	5	8	
3	3	6	9	
4	6			
5	Canyon			
6				

`2`

Alg Standard Real Rad

File Edit Insert Action

B

`1 4 7`

	A	B	C	D
1	1	4	7	
2	2	5	8	
3	3	6	9	
4	6			
5	Canyon			
6				

`1 Canyon 0 0`

Alg Standard Real Rad





File Edit Graph Calc

Math is Fun.

	A	B	C
1	Math is Fun.		
2			
3			
4			
5			
6			

Math is Fun. ✓ X

R1: Math is Fun.

File Edit Graph Calc

(1,2,3)

	A	B	C
1	1		
2	2		
3	3		
4			
5			
6			

1 ✓ X

R1:A3

File Edit Graph Calc

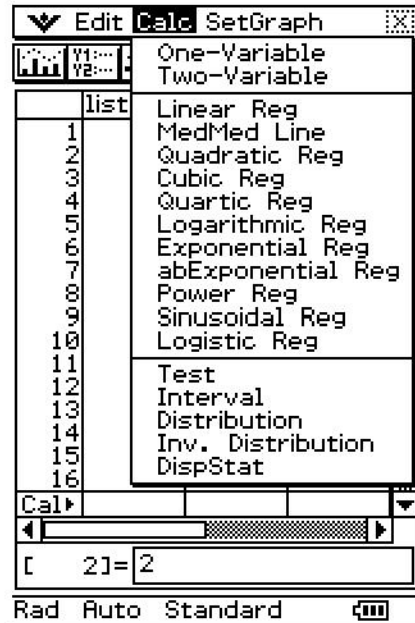
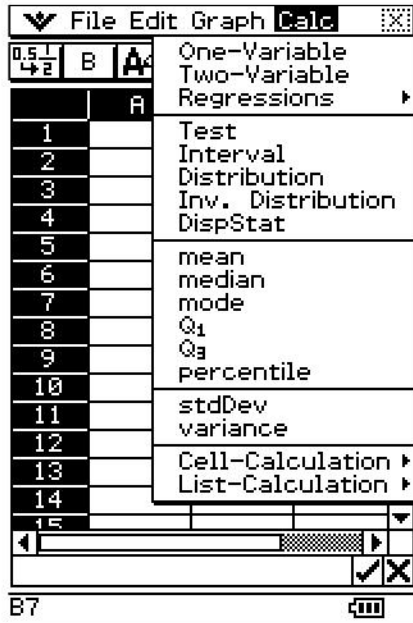
1	2		
3	4		

	A	B	C
1	1	2	
2	3	4	
3			
4			
5			
6			

1 ✓ X

R1:B2





⋮

⋮	⋮

⋮	⋮

⋮	⋮	⋮





Quadratic Reg
 $y = a \cdot x^2 + b \cdot x + c$
a = -0.571428
b = 3.4285714
c = 2.15
 $r^2 = 0.9992193$

[Output>>](#) Link [Close](#)





	C	D	E
1	a	-0.571	
2	b	3.4286	
3	c	2.15	
4	r ²	0.9992	
5	MSe	1.8e-3	

Type	Distribution
	Normal PD
<input type="checkbox"/> Help	
Next >>	



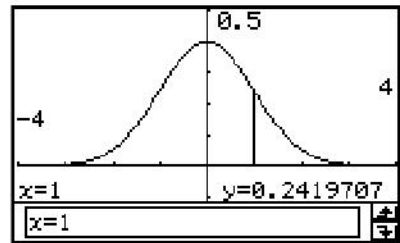


x
 σ
 μ

<< Back Help Next >>

prob

<< Back Help Output >>



	A	B	C
1	0.1	0.3970	
2	1	0.2420	
3	1.5	0.1295	
4			
5			

=normPDF(A1,1,0) ✓ X

Output:
Results

<< Back Paste Close

NormPD





File Edit Graph Calc

B

	A	B	C	D
1				
2				
3				
4				
5				
6				
7	61	12	33	
8	82	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	54	
12	71	19	88	
13				
14				
15				

C13





File Edit Graph Calc

	A	B	C	D
1				
2				
3				
4				
5				
6				
7	61	12	33	
8	82	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	54	
12	71	19	88	
13				
14				
15				

=sum(
A1

File Edit Graph Calc

	A	B	C	D
1				
2				
3				
4				
5				
6				
7	61	12	33	
8	82	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	54	
12	71	19	88	
13				
14				
15				

=sum(A7:C12)
A1





File Edit Graph Calc

0.5 1 2 B A B C D

	A	B	C	D
1	940			
2				
3				
4				
5				
6				
7	61	12	33	
8	82	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	54	
12	71	19	88	
13				
14				
15				

=sum(A7:C12)

A1 940

File Edit Graph Calc

0.5 1 2 B A B C D

	A	B	C	D
1	1040			
2				
3				
4				
5				
6				
7	61	12	33	
8	82	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	54	
12	71	19	88	
13				
14				
15				

=sum(A7:C12)+100

A1 1040





	A	B	C	D
1	7			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

File Edit Graph Calc
0.51/42 B [undo] [redo] [insert] [delete] [copy] [paste] [print] [help] [quit]
=row(A7) [OK] [Cancel]
A1 7 [OK]

	A	B	C	D
1	3			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

File Edit Graph Calc
0.51/42 B [undo] [redo] [insert] [delete] [copy] [paste] [print] [help] [quit]
=col(C9) [OK] [Cancel]
A1 3 [OK]



File Edit Graph Calc

0.51
42 B A/ [List Icon] [Undo] [Redo]

	A	B	C	D
1	18			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=count(A7:C12)

A1 18





File Edit Graph Calc

0.51 B

	A	B	C
1	0	Small	
2	1	Small	
3	2	Small	
4	3	Small	
5	4	Small	
6	5	Big	
7	6	Big	
8	7	Big	
9	8	Big	
10	9	Big	
11			
12			
13			
14			
15			

=cellif(A1≥5,"Big","Small")

B1 Small



File Edit Graph Calc

	A	B	C	D
1	12			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=min(A7:C12)

A1 12

File Edit Graph Calc

	A	B	C	D
1	91			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=max(A7:C12)

A1 91

File Edit Graph Calc

0.5 1/4 2 B A/ B C D

	A	B	C	D
1	50.4			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=mean(A7:C12) ✓ X

R1 50.44444444

File Edit Graph Calc

0.5 1/4 2 B A/ B C D

	A	B	C	D
1	46.5			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=median(A7:C12) ✓ X

R1 46.5

File Edit Graph Calc

	A	B	C
1	11		
2			
3			
4			
5			
6			
7	10	12	17
8	10	12	17
9	11	13	18
10	11	14	19
11	11	15	20
12	11	16	20
13			
14			
15			

=mode(A7:C12) ✓ X

A1 11

File Edit Graph Calc

	A	B	C	D
1	33			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=Q1(A7:C12) ✓ X

A1 33

File Edit Graph Calc

0.51
42 B A B C D

	A	B	C	D
1	65			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=Q3(A7:C12)

A1 65

File Edit Graph Calc

0.51
42 B A B C D

	A	B	C	D
1	54			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=percentile(A7:A12, 50)

A1 54

File Edit Graph Calc

	A	B	C	D
1	23.3			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=stdDev(A7:C12)

A1 23.33193273

File Edit Graph Calc

	A	B	C	D
1	544.			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=variance(A7:C12)

A1 544.379085

File Edit Graph Calc

0.5 1/4 2 B A/ [Fill] [Format] [Chart] [Print]

	A	B	C	D
1	908			
2				
3				
4				
5				
6				
7	61	12	33	
8	83	35	91	
9	47	57	57	
10	32	65	45	
11	46	45	21	
12	71	19	88	
13				
14				
15				

=sum(A7:C12) ✓ X

A1 908 [Print]

File Edit Graph Calc

0.5 1/4 2 B A/ [Fill] [Format] [Chart] [Print]

	A	B	C	D
1	5561			
2				
3				
4				
5				
6				
7	67			
8	83			
9	47			
10	32			
11	46			
12	71			
13				
14				
15				

=prod(A7:A8) ✓ X

A1 5561 [Print]



File Edit Graph Calc

0.5 1/4 2 B A/ B C D

	A	B	C	D
1	(2, ...	2		
2		4		
3		6		
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

=cuml(B1:B3)

R1 (2,6,12)

File Edit Graph Calc

0.5 1/4 2 B A/ B C D

	A	B	C	D
1	(2, ...	2		
2		4		
3		6		
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

=dlist(B1:B3)

R1 (2,2)



File Edit Graph Calc

0.5 1/4 2 B A/≡ ▾ Ⓞ ▮ ▮ ▻

	A	B	C	D
1	(10 ...	2		
2		8		
3		6		
4		4		
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

=percent(B1:B4) ✓✕

R1 (10, 40, 30, 20) Ⓞ

File Edit Graph Calc

0.5 1/4 2 B A/≡ ▾ Ⓞ ▮ ▮ ▻

	A	B	C	D
1	2·x ...	2		
2		8		
3		6		
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

=polyEval(B1:B3) ✓✕

R1 2·x²+8·x+6 Ⓞ



File Edit Graph Calc

$\frac{0.51}{42}$ B

	A	B	C	D
1	1.3 ...	2		
2		8		
3		6		
4		4		
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

=sequence(B1:B4,y)

A1 1.333333333·y³-1 ...





File Edit Graph Calc				
0.51 4/2 B A				
	A	B	C	D
1	0.3 ...	2		
2		8		
3		6		
4		4		
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

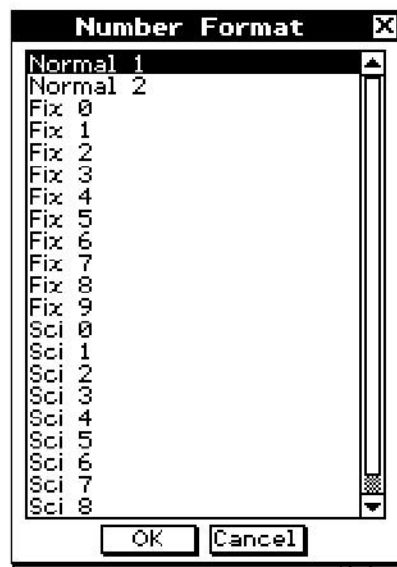
=sumSeq(B1:B4,y)

R1 0.3333333333·y^4- ...



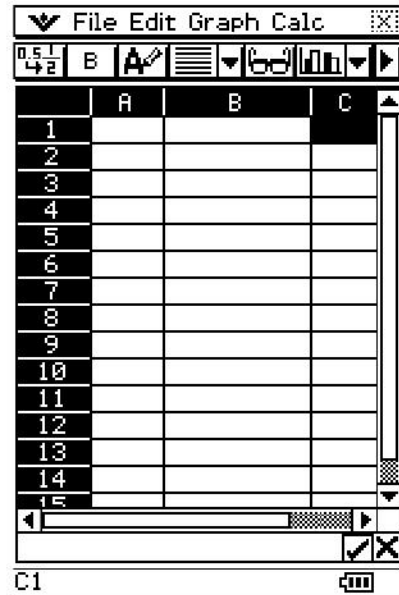
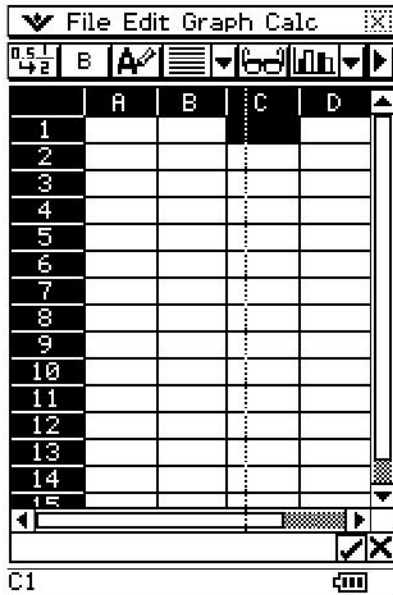






B1:B4







File Edit Graph Calc

0.5 1/2 B

	A	B	C	D
1				
2				
3		1E+9		
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

1234567890

B3 1234567890



File Edit Graph Calc

0.5 1/4 2 B A/ [Grid] [Zoom] [Print]

	A	B	C
1			
2			
3		1234567890	
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

1234567890

B3 1234567890

File Edit Graph Calc

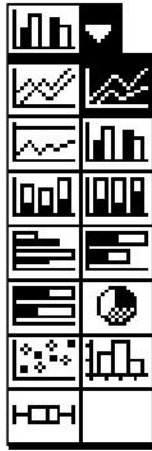
0.5 1/4 2 B A/ [Grid] [Zoom] [Print]

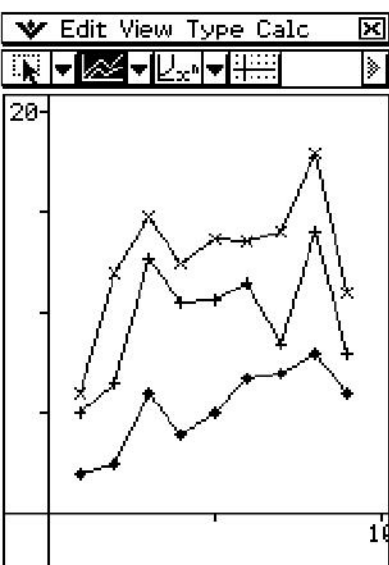
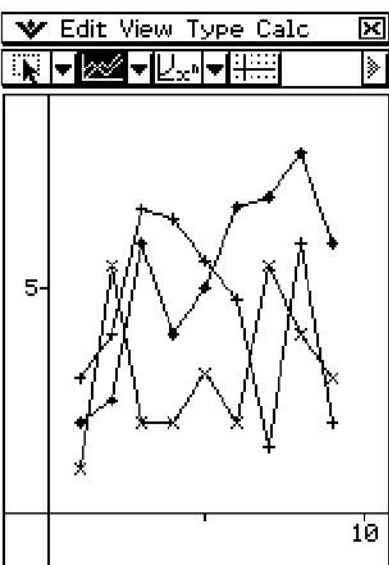
	A	B	C	D	E
1					
2					
3					
4		1			
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

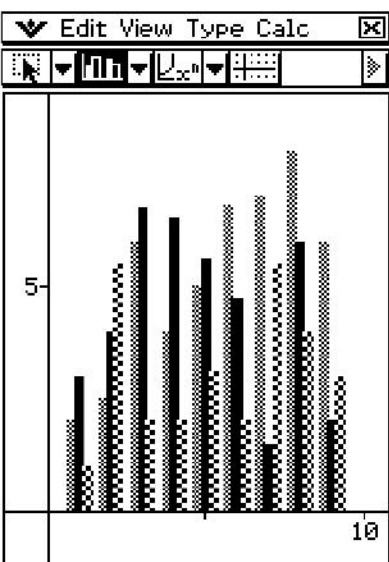
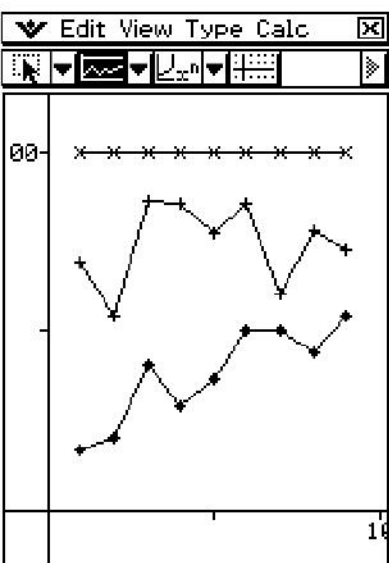
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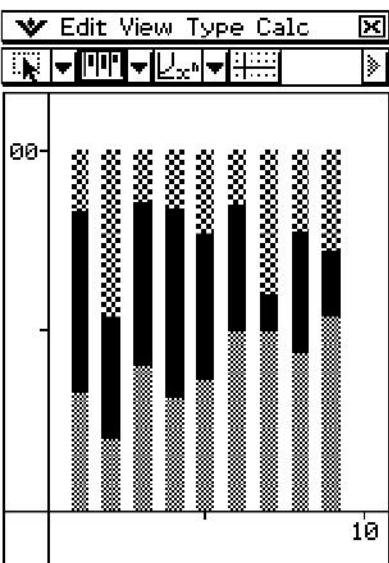
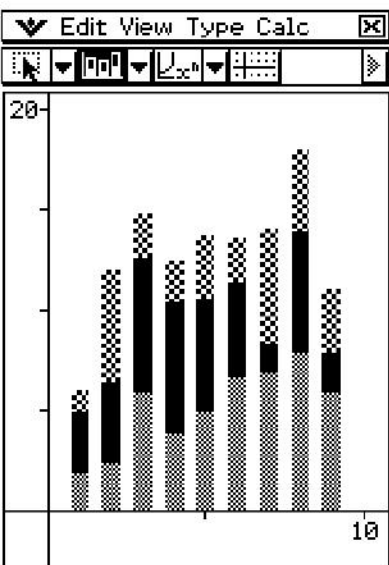
B4 1

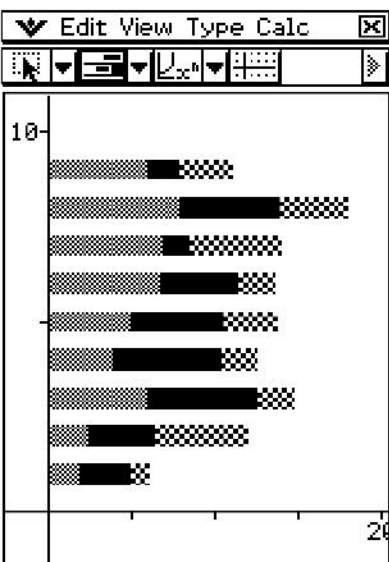
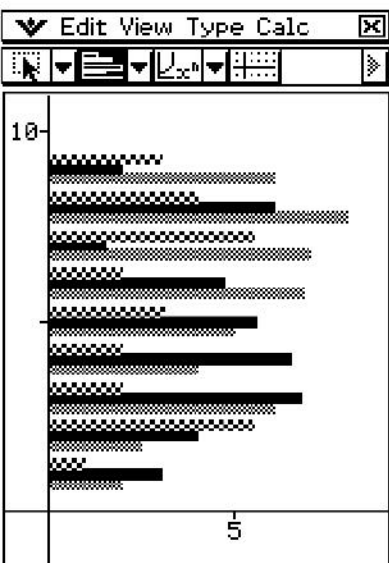


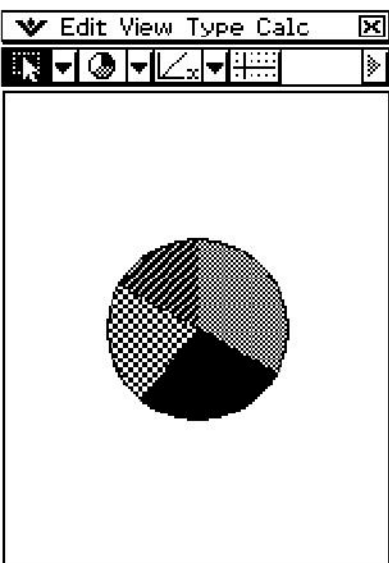
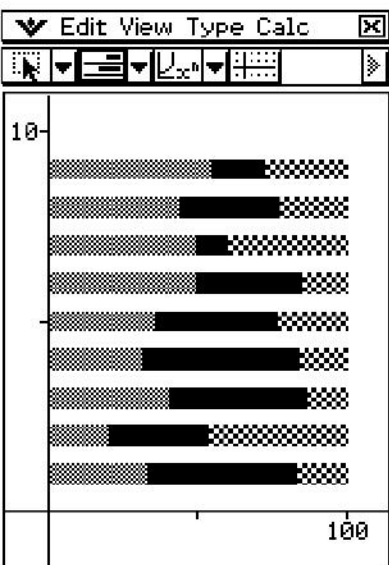


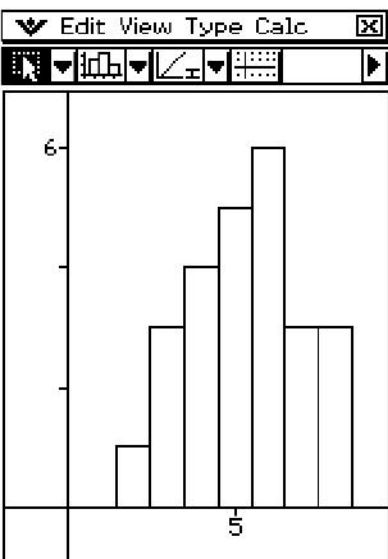
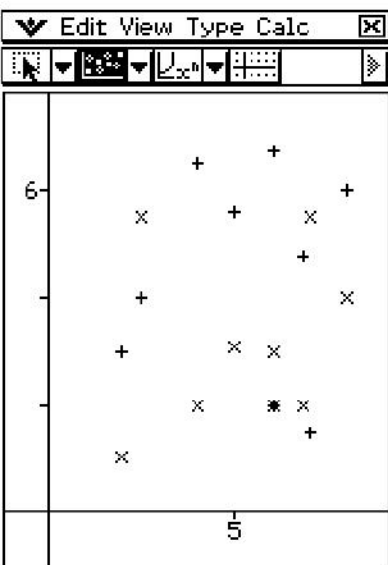


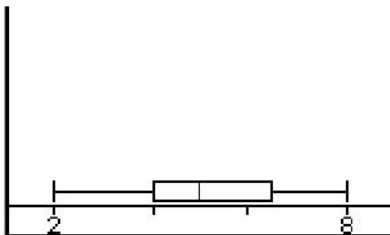
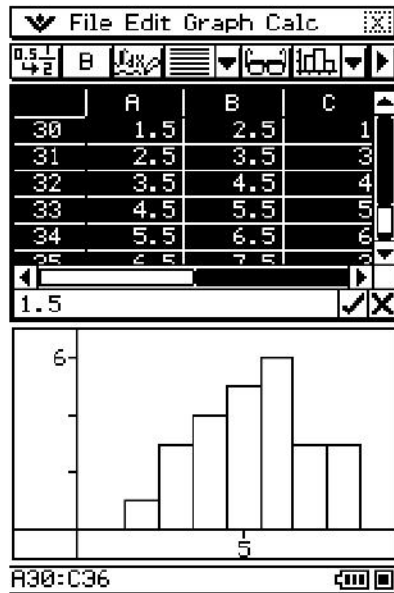
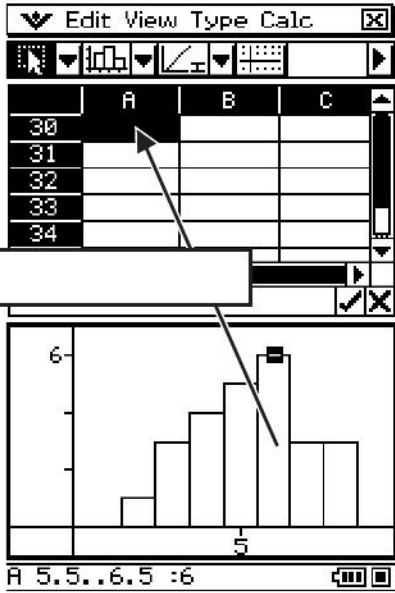
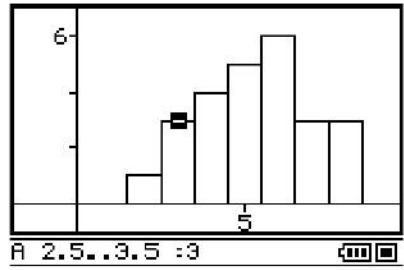


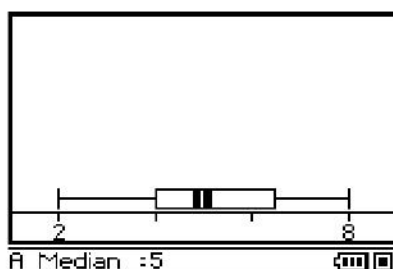
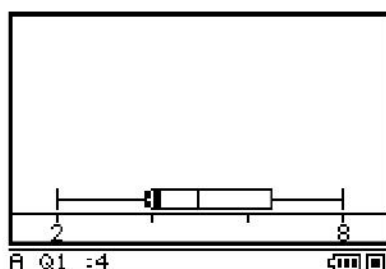












▼ Edit View Type Calc

- Linear Reg
- MedMed Line
- Quadratic Reg
- Cubic Reg
- Quartic Reg
- Quintic Reg
- Exponential Reg
- Logarithmic Reg
- abExponential Reg
- Power Reg
- Sinusoidal Reg
- Logistic Reg

DispStat

Line
Column
 Bin Width
 Show Outliers



▼ Edit View Type Calc

- Linear Reg
- MedMed Line
- Quadratic Reg
- Cubic Reg
- Quartic Reg
- Quintic Reg
- Exponential Reg
- Logarithmic Reg
- abExponential Reg
- Power Reg
- Sinusoidal Reg
- Logistic Reg

DispStat

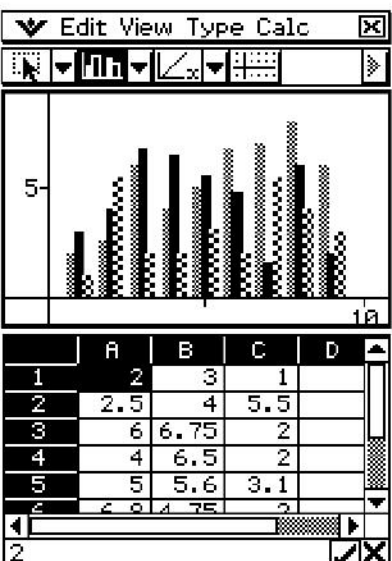
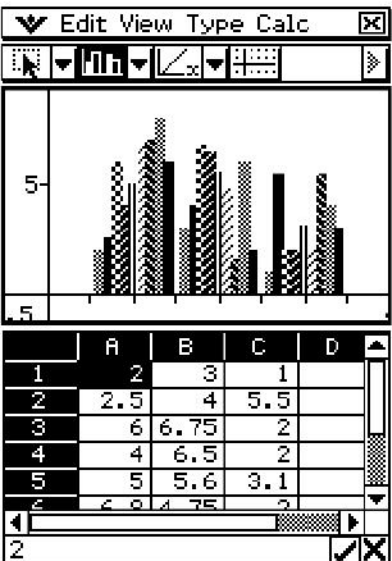
Line
Column
 Bin Width
 Show Outliers

▼ File Edit Graph Calc

0.5 1/2 B A/ [] [] [] [] [] []

	C	D	E
1	Min	1	
2	Q1	2.5	
3	Median	3	
4	Q3	5.5	
5	Max	42	
6			











File Edit Graph Calc				
0.5 1/2 B A B C				
	A	B	C	
1	5	5.6	3.1	
2	6.8	4.75	2	
3	7	1.5	5.5	
4	8	6	4	
5	6	2	3	
6				
7				
8				
9				
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12				
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14				
15				

4

C4 4



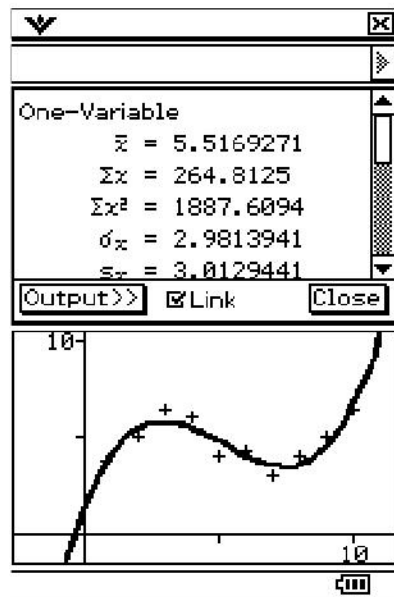
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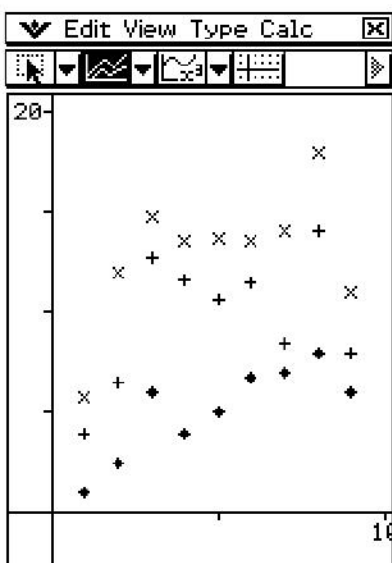
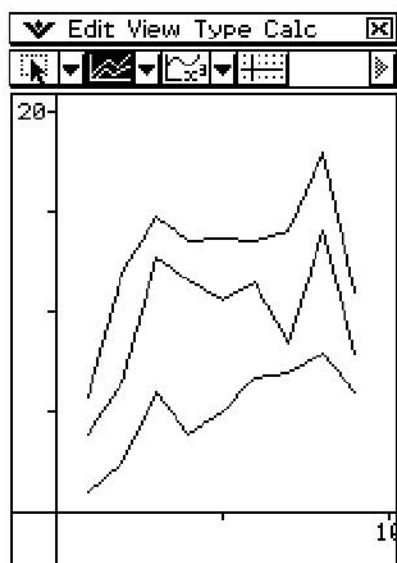
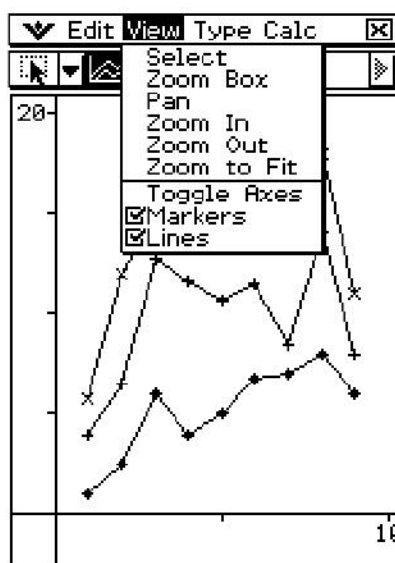
- Line
- Column
- Bar
- Pie
- Scatter
- Histogram
- Box Whisker

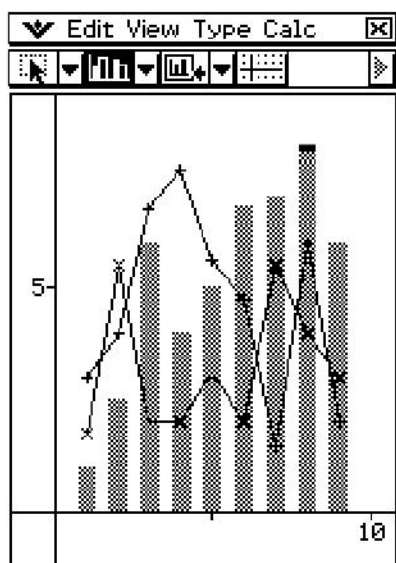
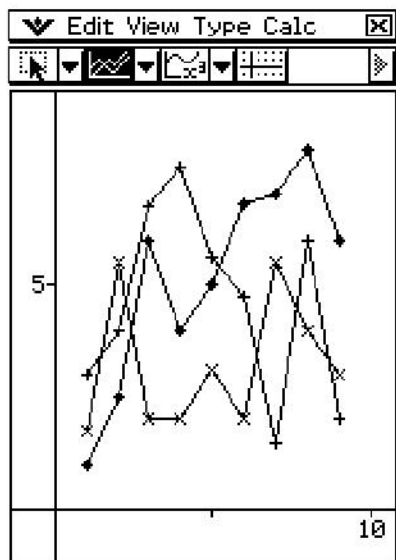
Row Series
 Column Series

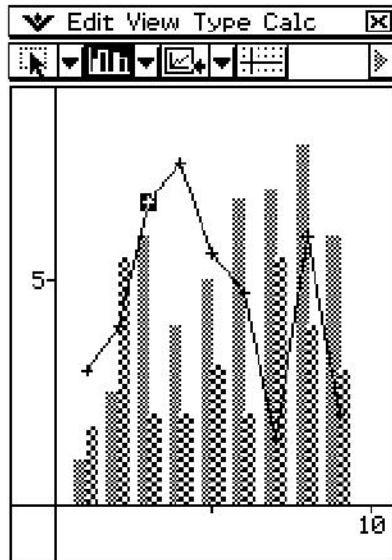
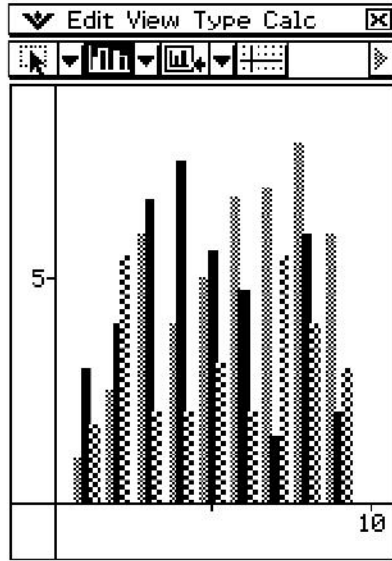
A1:C5

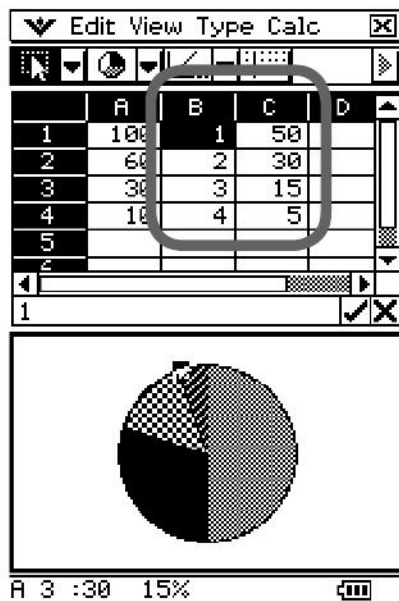


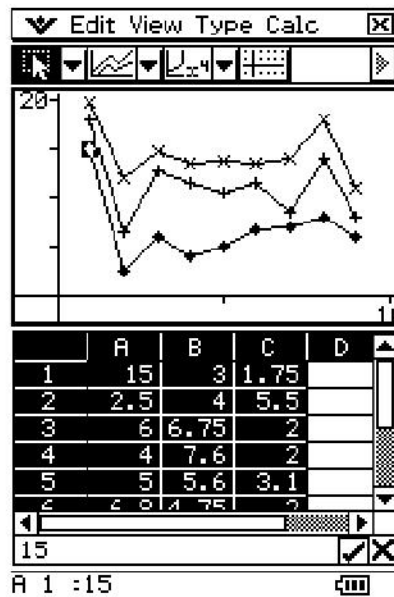
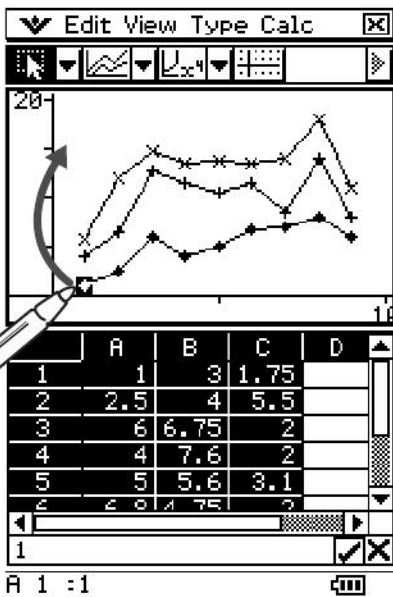


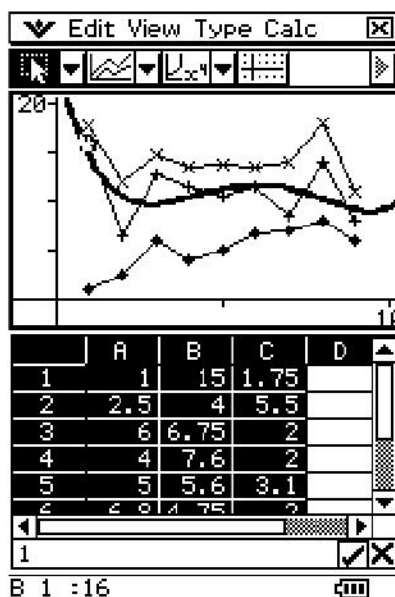
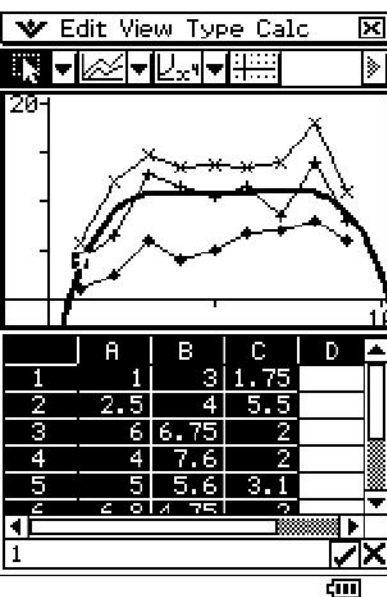












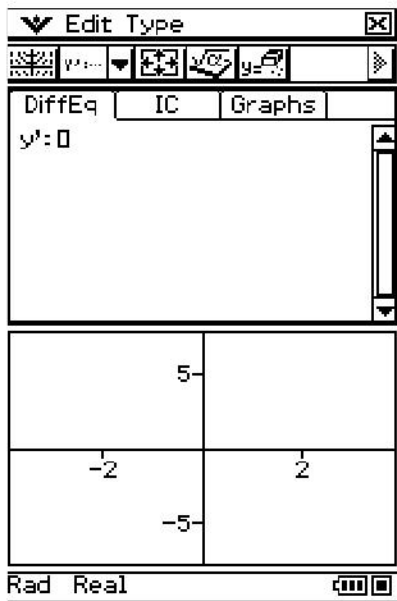
14

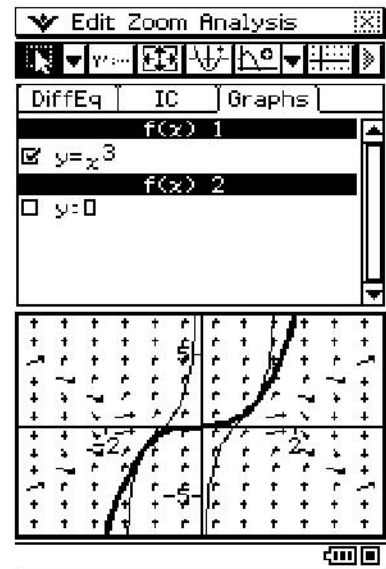
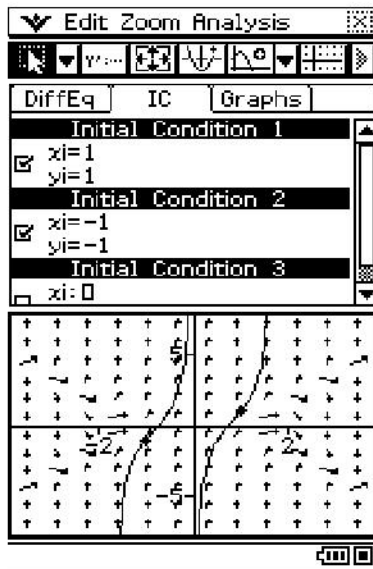
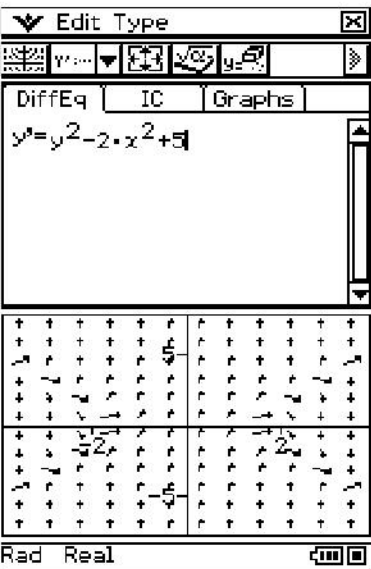






DiffEqGraph


























Rad Real 





Differential Equations

▼ Edit Type

DiffEq IC Graphs

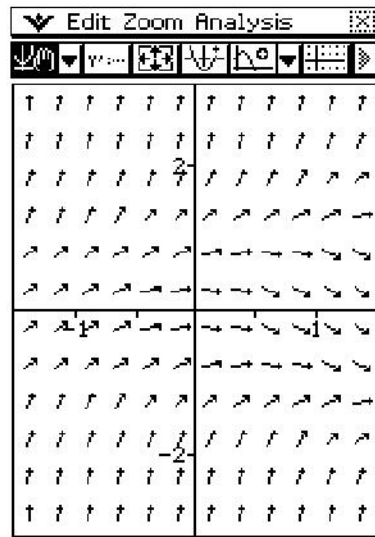
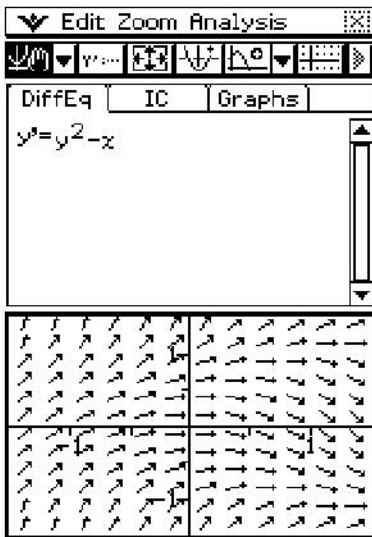
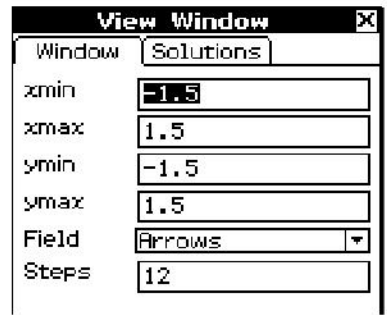
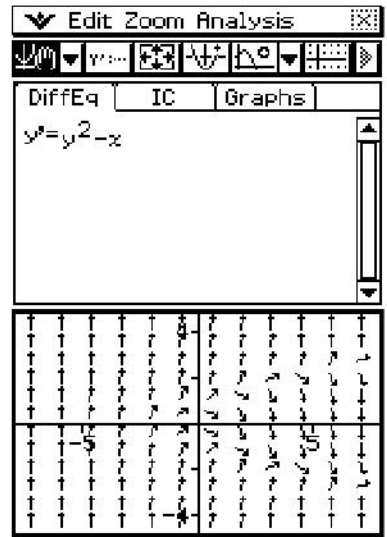
$y' = y^2 - x$

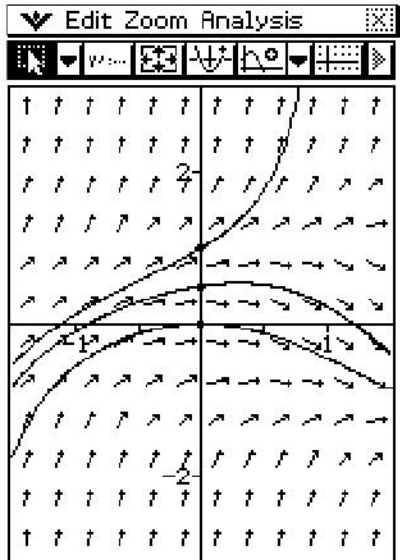
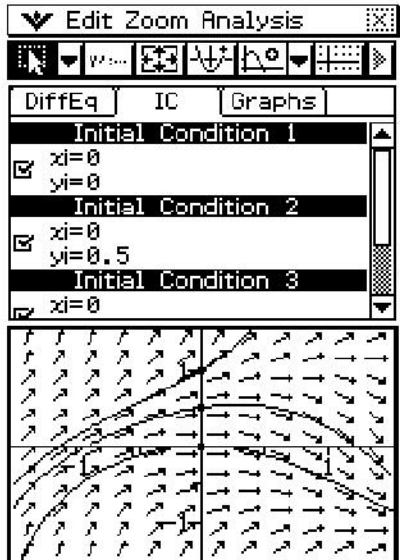
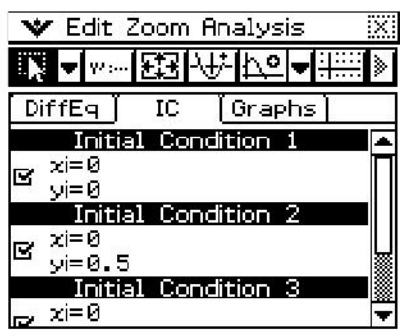
mth abc cat 2D

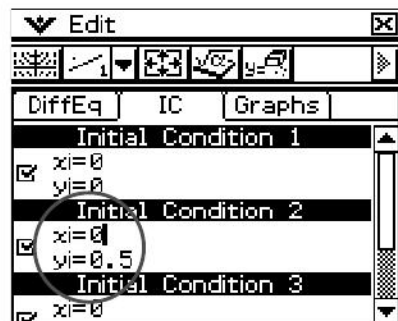
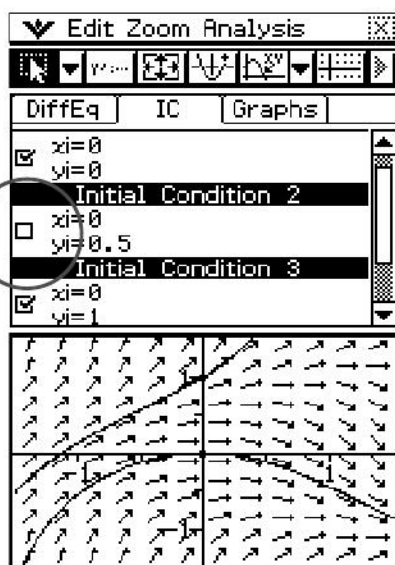
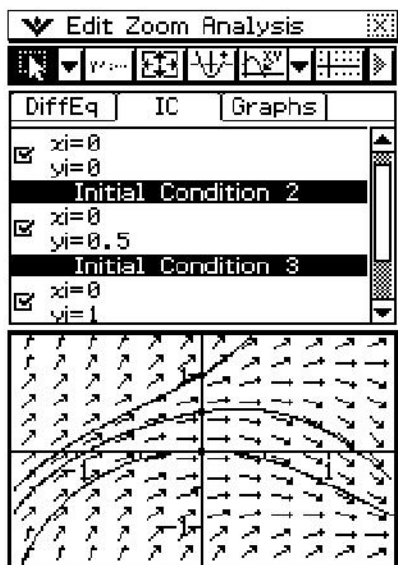
π	θ	i	ω	()	,	\Rightarrow	∇	∇	∇	∇	∇	∇
log	ln	$\sqrt{\quad}$					7	8	9	^	=	
x^2	e^x	x^{-1}					4	5	6	\times	\div	
( )	|x|						1	2	3	+	-	
[]	(-)						0	.	E	ans		
TRIG	CALC	OPTN	VAR	EXE								

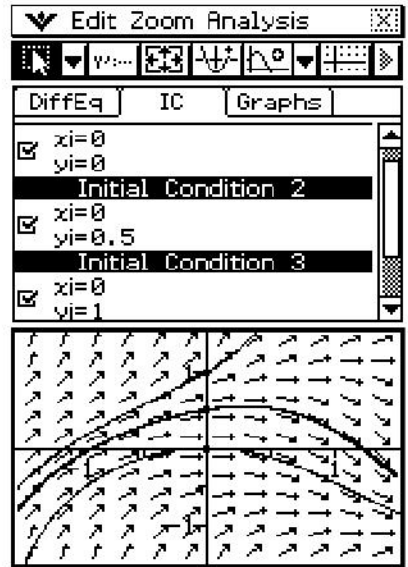
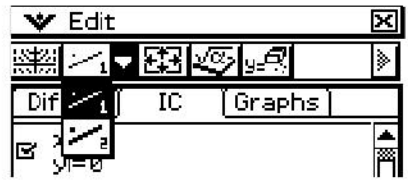
Gra Real











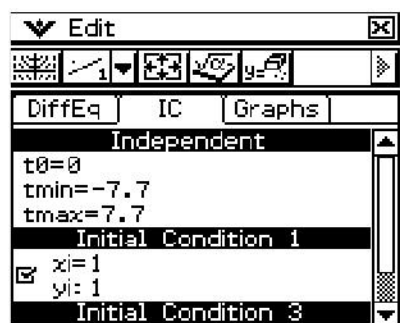
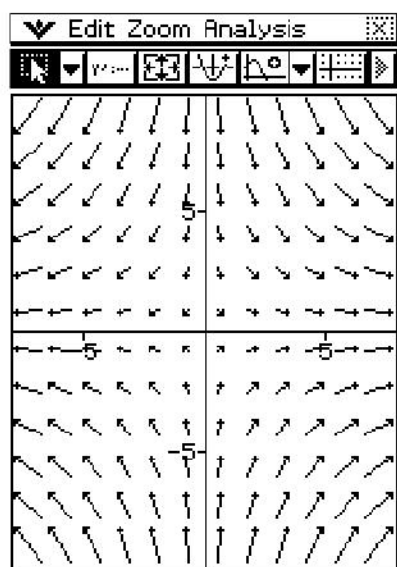
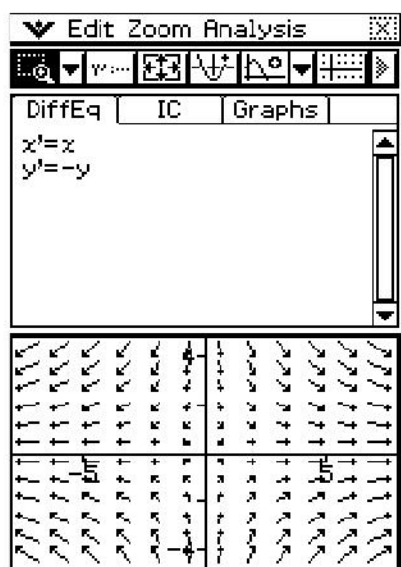


▼ Edit Type

Grid View | List View | Refresh | Undo | Redo | y=

DiffEq	IC	Graphs
$x' = x$ $y' = -y$		







Edit Zoom Analysis

DiffEq IC Graphs

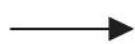
Independent

t0=0
tmin=-7.7
tmax=7.7

Initial Condition 1

x=1
y=1

Initial Condition 3



Edit Zoom Analysis



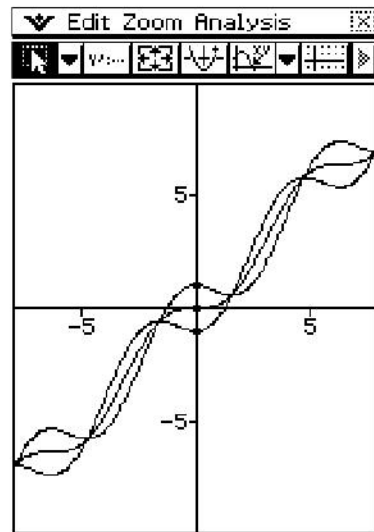
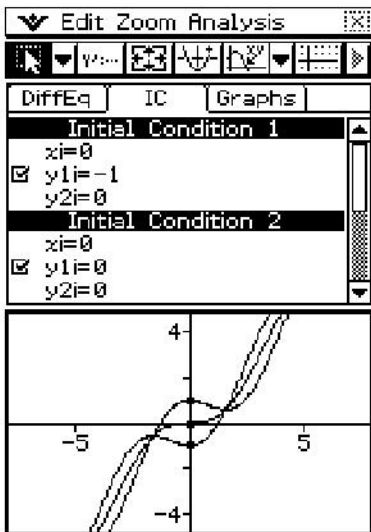
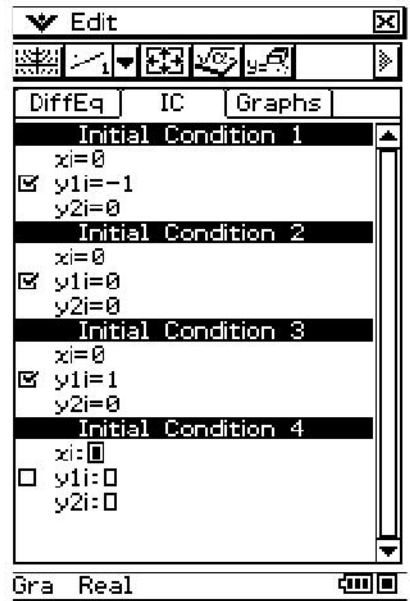


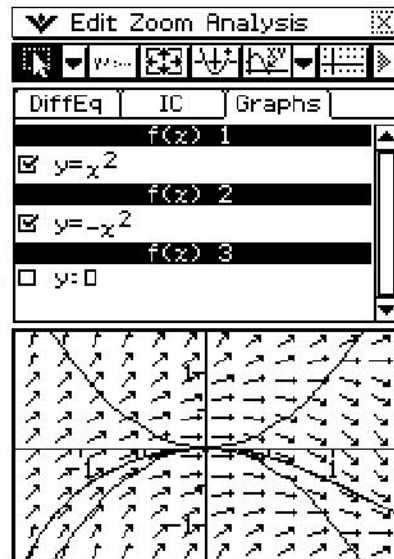
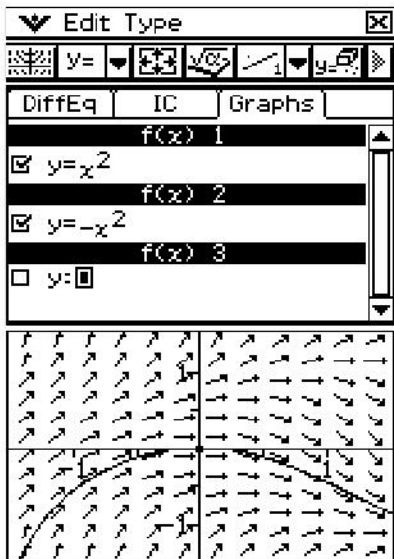
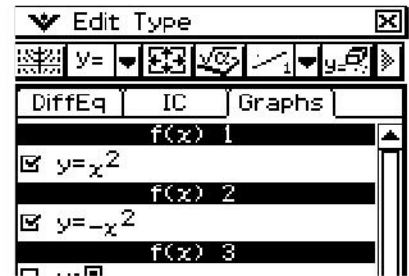
▼ Edit Type

Grid View | View | Refresh | Undo | Redo | $y=$

DiffEq	IC	Graphs
<input checked="" type="checkbox"/>		$y1' = y2$
<input checked="" type="checkbox"/>		$y2' = x - y1$
<input type="checkbox"/>		$y3' = \square$









Edit Type

DiffEq IC Graphs

Parametric 1

$xt=3 \cdot \sin(t)+1$
 $yt=3 \cdot \cos(t)+1$
 $tmin=0$
 $tmax=6.283185307$

Parametric 2

$xt=\sin(t)-1$
 $yt=\cos(t)-1$
 $tmin=0$
 $tmax=6.283185307$

Parametric 3

$xt=0$

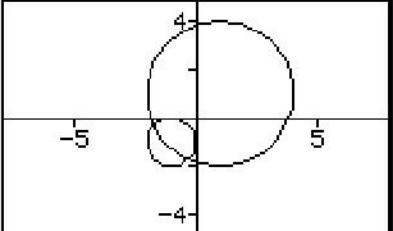
Edit Zoom Analysis

DiffEq IC Graphs

$yt=3 \cdot \cos(t)+1$
 $tmin=0$
 $tmax=2 \cdot \pi$

Parametric 2

$xt=\sin(t)-1$
 $yt=\cos(t)-1$
 $tmin=0$
 $tmax=2 \cdot \pi$





View Window [X]

Window	Solutions
xmin	-3.8
xmax	3.8
ymin	-7.7000000000002
ymax	7.69999999999981
Field	Arrows
Steps	12

OK Cancel Default

View Window [X]

Window	Solutions
Solution Dir.	Both
Independent	x
x-Axis	x
y-Axis	y

OK Cancel Default

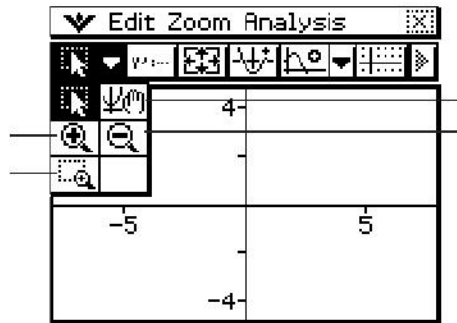
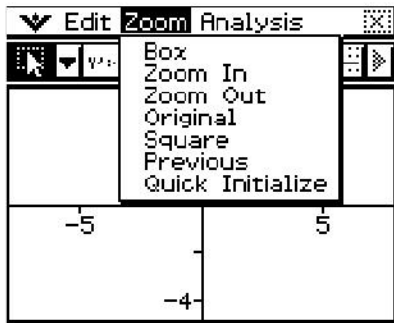


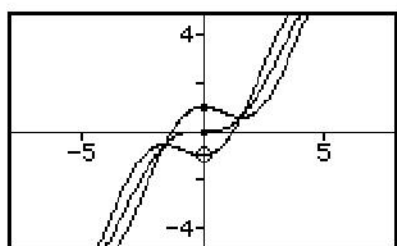
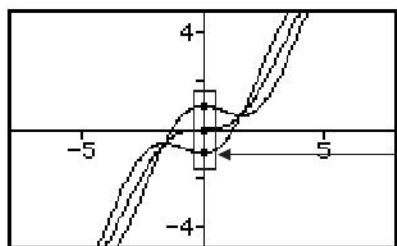












Edit Zoom Analysis

DiffEq IC Graphs

Initial Condition 1

$x_i=0$
 $y_{1i}=-1$
 $y_{2i}=0$

Initial Condition 2

$x_i=0$
 $y_{1i}=0$
 $y_{2i}=0$

A graph showing a solution curve on a coordinate plane. The x-axis ranges from -5 to 5, and the y-axis ranges from -4 to 4. A pencil cursor is positioned over the graph, pointing towards the origin.

Edit Zoom Analysis

DiffEq IC Graphs

Initial Condition 1

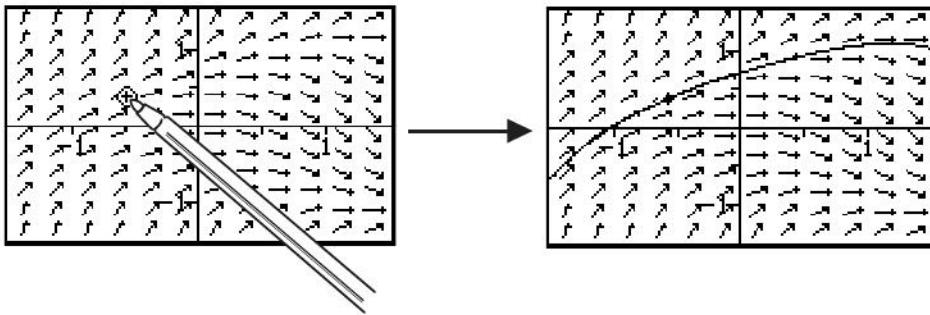
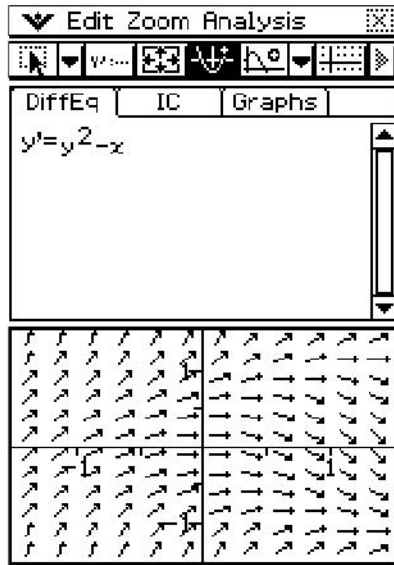
$x_i=2.667096774$
 $y_{1i}=-1.970967742$
 $y_{2i}=0$

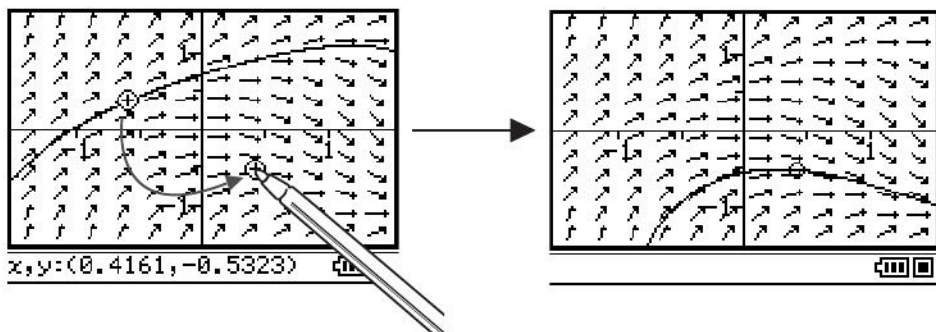
Initial Condition 2

$x_i=0$
 $y_{1i}=0$
 $y_{2i}=0$

A zoomed-in view of the graph from the previous figure. The x-axis ranges from -5 to 5, and the y-axis ranges from -4 to 4. The curve is shown in more detail, highlighting its oscillatory behavior around the origin. A pencil cursor is positioned over the graph, pointing towards the origin.







Edit [Close]

[Grid] [Line] [Arrow] [Eraser] [Copy] [Paste]

DiffEq IC Graphs

Initial Condition 1

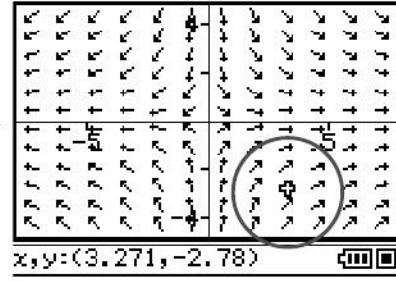
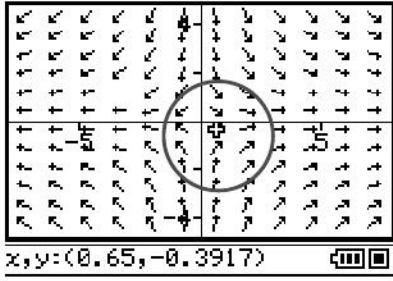
$x_i=0.4161290323$
 $y_i=-0.5322580645$

Initial Condition 2

$x_i=0$
 $y_i=0$









File Edit Insert Action

$\frac{1.5}{4}$ B Δ

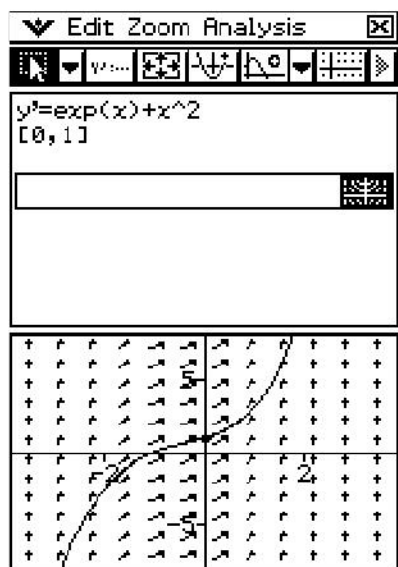
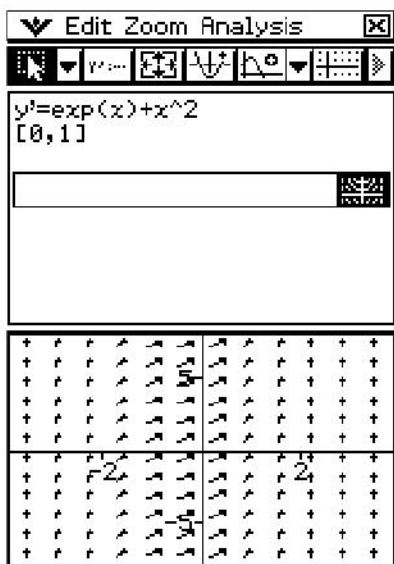
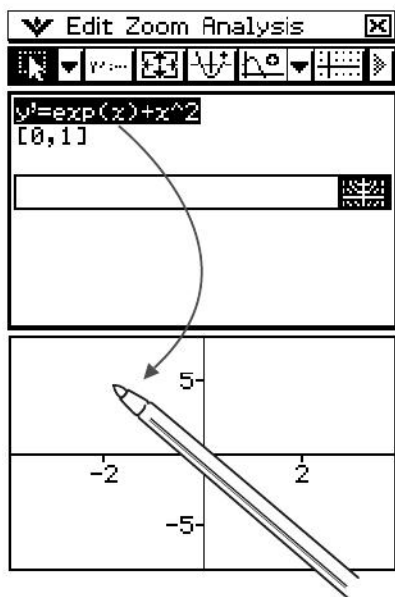
$y' = \exp(x) + x^2$
[0, 1]

Edit Zoom Analysis

$y' = \exp(x) + x^2$
[0, 1]

	5
-2	2
	-5







File Edit Insert Action

$\frac{0.5}{4}$ \rightarrow B Δ \downarrow \rightarrow

$y''+y'=\exp(x)$
[[0, 1, 0]][0, 2, 0]]

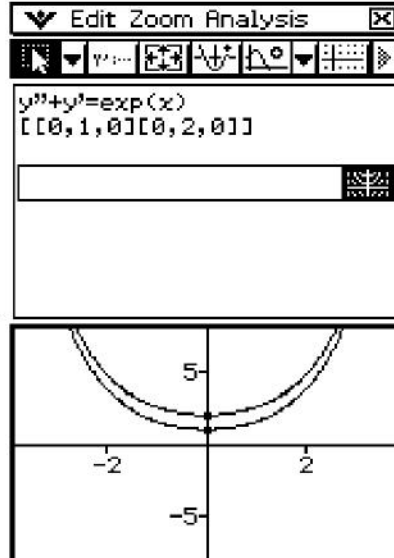
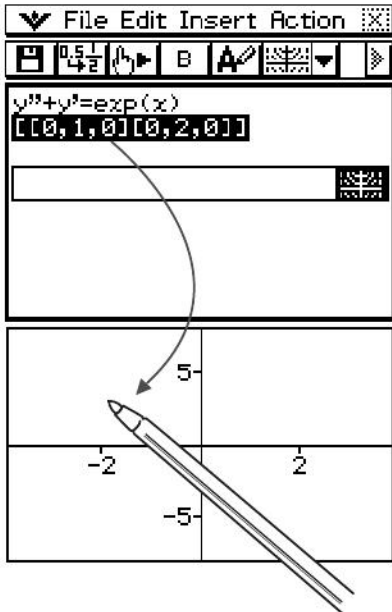
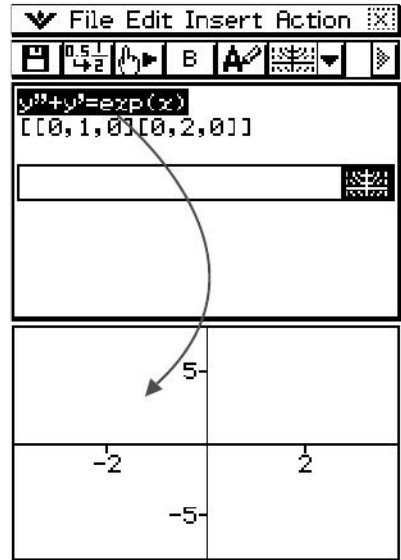
Edit Zoom Analysis

\downarrow \leftarrow \rightarrow Δ \downarrow \rightarrow

$y''+y'=\exp(x)$
[[0, 1, 0]][0, 2, 0]]

5	
-2	2
-5	





15





▼ Edit Calculations 

Financial

- Simple Interest
- Compound Interest
- Cash Flow
- Amortization
- Interest Conversion
- Cost/Sell/Margin
- Day Count
- Depreciation
- Bond Calculation
- Break-Even Point
- Margin of Safety
- Operating Leverage
- Financial Leverage
- Combined Leverage
- Quantity Conversion

Help Format

Solve  













Financial Format [X]

Basic Special

Days in Year
360 days ▾

Payment Date
End of period ▾

Date Format
MM/DD/YYYY ▾

Automatically copy
 common fields to new
calculation

Set Cancel Default





▼ Edit Calculations

◀ ▶ ✂ 📄 📅 📊 ▼ ▶

Compound Interest

N	4
I%	6
PV	-1000
PMT	0
FV	1262.47696
P/Y	1
C/Y	1

Help Format

Interest Type
Compound (CI) ▼

Payment Date
End of period ▼

Solve CI End 📊







▼ Edit Calculations

◀ ▶ ✂ 📄 📅 ⌵ ▶

Simple Interest

Days 1825

I% 6


PV -300

SI

SFV 390

Help +Format

Solve 365



●

Edit Calculations ✖

◀ ▶ ✂ 📄 📁 📅 ▼ ▶

Simple Interest


Days	120
I%	5
PV	-10000
SI	164.3835616
SFV	10164.38356

+Help Format

Solve 365 ☰

— (—)

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▼ Edit Calculations

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Compound Interest

N	4
I%	6
PV	-1000
PMT	0
FV	1262.47696
P/Y	1
C/Y	1

◀Help Format

Solve CI End 📊



▼ Edit Calculations

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Compound Interest

N	36
I%	7
PV	-100
PMT	0
FV	123.2925587
P/Y	12
C/Y	12

+Help Format

Solve CI End

▼ Edit Calculations

◀ ▶ ✂ 📄 📁 📊 ▼ ▶

Compound Interest

N	120
I%	7
PV	0
PMT	-100
FV	17308.48074
P/Y	12
C/Y	12

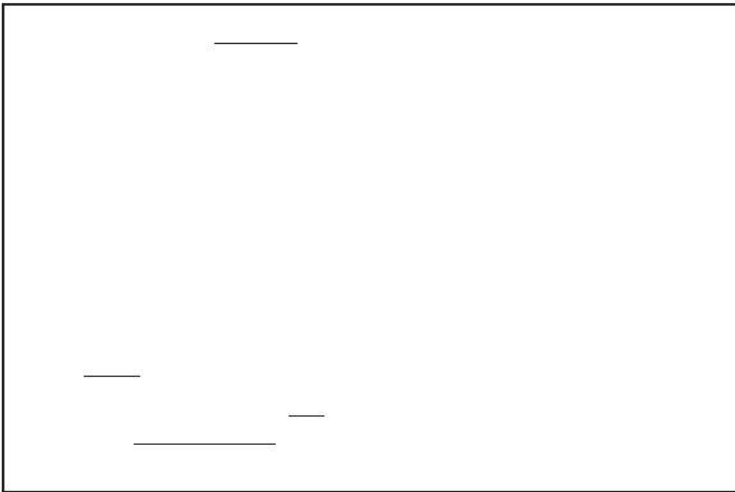
+Help Format

Solve CI End





$$\frac{\gamma \quad \beta}{\alpha}$$
$$\frac{\gamma \quad \alpha}{\beta}$$









▼ Edit Calculations

◀ ▶ ✂ 📄 📁 📊 ▼ ▶

Cash Flow

Cash

I%

NPV

IRR

◀ Help Format

	list1	list2	list3
1	0		
2	100		
3	200		
4	300		
5	400		

Cal ▶

◀ ▶

[7] =

Solve



Edit Calculations

Cash Flow

Cash: 6 entries

I%: 10

NPV: 65.25883105

IRR: 12.00576195

Help Format

	list1	list2	list3
1	-1000		
2	100		
3	200		
4	300		
5	400		

Cal

[21= 100

Solve





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▼ Edit Calculations

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Compound Interest

N	240
I%	8.025
PV	100000
PMT	-837.9966279
FV	0
P/Y	12
C/Y	12

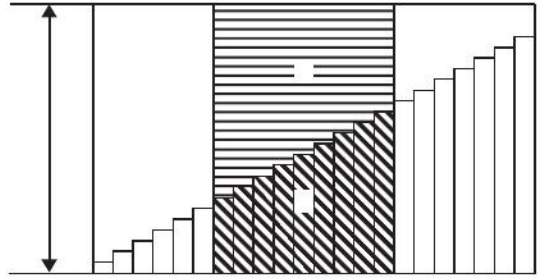
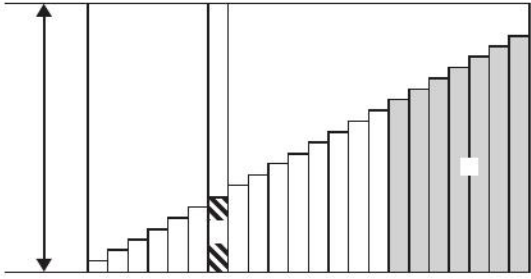
◀ Help Format

Solve CI End 📊



Edit Calculations	
PM1	10
PM2	15
I%	8.025
PV	100000
PMT	-837.9966279
P/Y	12
C/Y	12
BAL	97338.94362
INT	-658.286684
PRN	-179.709944
ΣINT	-3931.531399
ΣPRN	-1096.448368
<input type="button" value="←Help"/> <input type="button" value="Format"/>	
Solve End 	









▼ Edit Calculations

◀ ▶ ✂ 📄 📅 📊 ⌵ ▶

Interest Conversion

N	4
EFF	3.033919066
APR	3

Help Format

Solve



●

Edit Calculations

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Interest Conversion


N	6
EFF	5
APR	4.898907631

◀ Help Format

Solve ⏏

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▼ Edit Calculations ✕

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Cost/Sell/Margin

Cost	40
Sell	100
Margin	60

◀ Help Format

Solve ☰ 📄



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▼ Edit Calculations

◀ ▶ ✂ 📄 📁 📊 ▼ ▶

Day Count

d1 3 / 3 / 2005

d2 6 / 11 / 2005


Days 100

d2 = d1+Days

d1 = d2-Days

+Help Format

Solve 365



Edit Calculations

Day Count

d1 6 / 11 / 2005

d2 11 / 8 / 2005

Days 150

d2 = d1+Days

d1 = d2-Days

Help +Format

Solve 365

Edit Calculations

Day Count

d1 1 / 18 / 2005

d2 3 / 3 / 2005

Days 44

d2 = d1+Days

d1 = d2-Days

Help +Format

Solve 365




▼ Edit Calculations

◀ ▶ ✂ 📄 📁 📊 ▼ ▶

Depreciation

N	5
I%	25
PV	12000
FV	0
j	1
YR1	12
SL	
FP	
SYD	4000
DB	
RDV	8000

Help +Format

Solve 





Edit Calculations

◀ ▶ ✂ 📄 📁 📊 ▼ ▶

Depreciation

N	5
I%	25
PV	12000
FV	0
j	2
YR1	12
SL	
FP	
SYD	3200
DB	
RDV	4800

▼Help Format

Calculate depreciation
for year j using the
sum-of-the-years'-digits

Solve





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▼ Edit Calculations

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Bond Calculation

d1	6	/	1	/	2004
d2	12	/	15	/	2006
N	5				
RDV	100				
CPN	3				
PRC	-97.60735355				
YLD	4				
INT	-1.383333333				
Cost	-98.99068689				

+Help Format

Solve 360 Semi Date 



Edit Calculations

Bond Calculation

d1 / /

d2 / /

N

RDV

CPN

Help Format

360 days

Compounding Frequency
Semi-annual

Bond Interval
Term

360 Semi Term

Edit Calculations

Bond Calculation

d1 / /

d2 / /

N

RDV

CPN

PRC

YLD

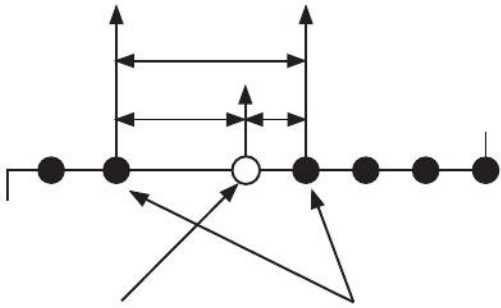
INT

Cost

Help Format

Solve 360 Semi Term













▼ Edit Calculations

◀ ▶ ✂ 📄 📁 📊 ▼ ▶

Break-Even Point

PRC	100
VCU	50
FC	100000
PRF	400000
QBE	10000
SBE	1000000
F%	

Help +Format

Solve PRF Qty 📊 📄





▼ Edit Calculations

◀ ▶ ✂ 📄 📂 📅 ▼ ▶

Break-Even Point

PRC	100
VCU	50
FC	100000
PRF	400000
QBE	10000
SBE	1000000
r%	40

◀Help Format

Solve r% Qty

(—)

(—)





Edit Calculations

◀ ▶ ✂ 📄 📁 📊 ⌵ ▶

Margin of Safety

SAL	1200000
SBE	1000000
MOS	0.1666666667

Help ▲Format

Solve





▼ Edit Calculations ✕

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Operating Leverage

SAL	1200000
VC	600000
FC	200000
DOL	1.5

Help *Format

Solve ☰ 📄





▼ Edit Calculations

◀ ▶ ✂ 📄 📁 📊 ⌵ ▶

Financial Leverage

EBIT	400000
INT	80000
DFL	1.25

Help ▲Format

Solve







▼ Edit Calculations

◀ ▶ ✂ 📄 📁 📊 ▼ ▶

Combined Leverage

SAL	12000
VC	6000
FC	2000
INT	1000
DCL	2

⌘ Help Format

Solve  





Quantity Conversion	
Sales	
SAL	100000
PRC	200
QTY	500





Manufacturing

VC	15000
VCU	30
QTY	500



16





System

Reset Init. Lang A+R▶

Main Memory Add-In App◀▶

Memory Usage

<input type="checkbox"/> Setup	3K
<input type="checkbox"/> Graph Sheet	592
<input type="checkbox"/> 3D Graph Sheet	208
<input type="checkbox"/> Graph Summary	804
<input type="checkbox"/> View Window	400
<input type="checkbox"/> 3D View Window	480
<input type="checkbox"/> Factor	64
<input type="checkbox"/> Table	456
<input type="checkbox"/> Conics Eqn	0
<input type="checkbox"/> Sequence	672
<input type="checkbox"/> Stat List	224
<input type="checkbox"/> Stat Result	92
<input type="checkbox"/> Numeric Solve	88
<input type="checkbox"/> Ans Memory	24
<input type="checkbox"/> Random Value	64

Delete

505752 Bytes FREE

English



System

Reset Init. Lang A&A

Main Memory Add-In App

Memory Usage

<input type="checkbox"/> Setup	3K
<input type="checkbox"/> Graph Sheet	592
<input type="checkbox"/> 3D Graph Sheet	208
<input type="checkbox"/> Graph Summary	804
<input type="checkbox"/> View Window	400
<input type="checkbox"/> 3D View Window	480
<input type="checkbox"/> Factor	64
<input type="checkbox"/> Table	456
<input type="checkbox"/> Conics Eqn	0
<input type="checkbox"/> Sequence	672
<input type="checkbox"/> Stat List	224
<input type="checkbox"/> Stat Result	92
<input type="checkbox"/> Numeric Solve	88
<input type="checkbox"/> Ans Memory	24
<input type="checkbox"/> Random Value	64

Delete

505752 Bytes FREE

English















	◀
	▶









Power Properties [X]

Power Save Mode

1 day [v]

After the selected time, this unit will enter the power save mode.

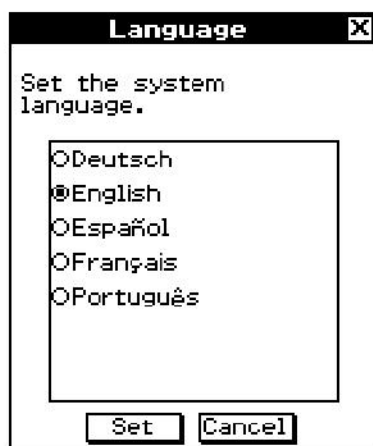
Auto Power Off

6 min [v]

After the selected time, power is turned off automatically.

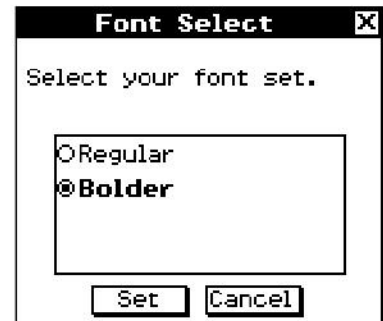
[Set] [Cancel]

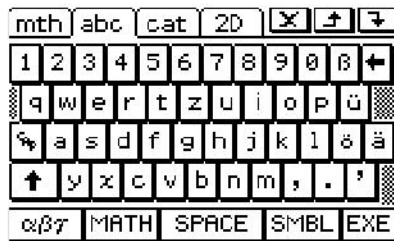


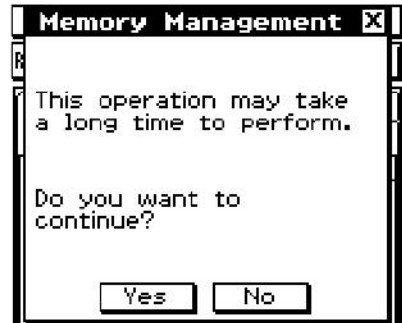




	<p>File Edit Insert Action</p> <p>0.5 | B A ↻</p> <p>--Basic-- 1234567890.E--+ abcdefghijklmnop pqrstuvwxyz ABCDEFGHIJKLMNO PQRSTUVWXYZ --Bold-- 1234567890.E--+ abcdefghijklmnop pqrstuvwxyz ABCDEFGHIJKLMNO PQRSTUVWXYZ</p>	<p>File Edit Insert Action</p> <p>0.5 | B A ↻</p> <p>--Basic-- 1234567890.E--+ abcdefghijklmnop pqrstuvwxyz ABCDEFGHIJKLMNO PQRSTUVWXYZ --Bold-- 1234567890.E--+ abcdefghijklmnop pqrstuvwxyz ABCDEFGHIJKLMNO PQRSTUVWXYZ</p>
	<p>Edit Action Interactive</p> <p>0.5 | Undo/Redo</p> <p>E3 Cut</p> <p>APP Copy</p> <p>APP Paste 1000</p> <p>APP Select All</p> <p>APP Delete 08553629</p> <p>APP Clear All</p>	<p>Edit Action Interactive</p> <p>0.5 | Undo/Redo</p> <p>E3 Cut</p> <p>APP Copy</p> <p>APP Paste 1000</p> <p>APP Select All</p> <p>APP Delete 553629</p> <p>APP Clear All</p>

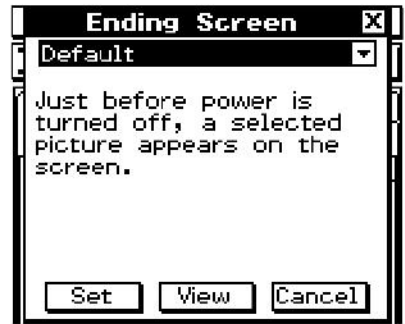


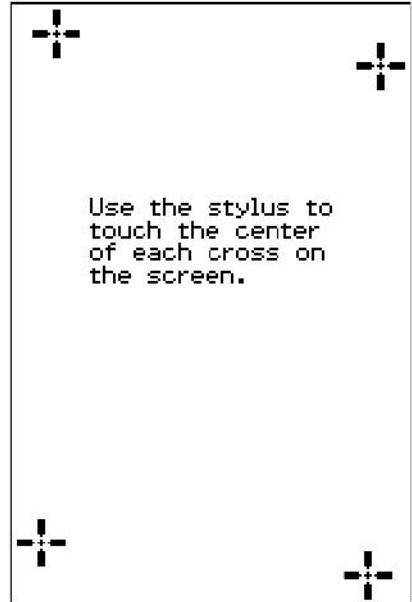




ESC



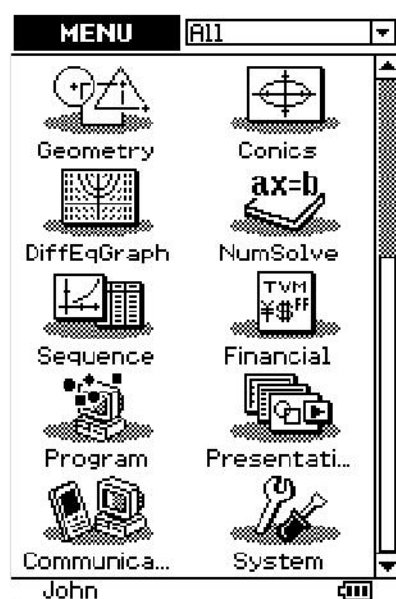




Use the stylus to touch the center of each cross on the screen.







solve(x^2+1,x)
(x=-j,x=j)

Imaginary Unit ✕

Pick which letter to use for imaginary numbers

i

j







v

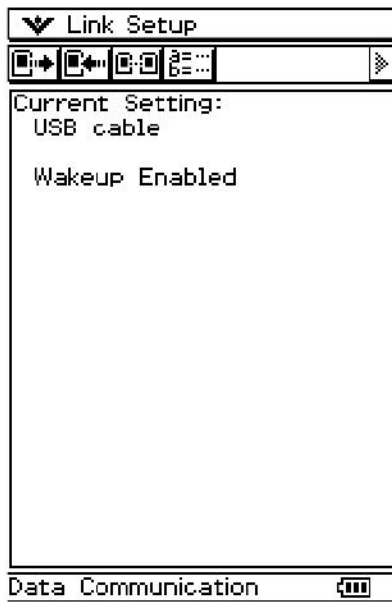


17

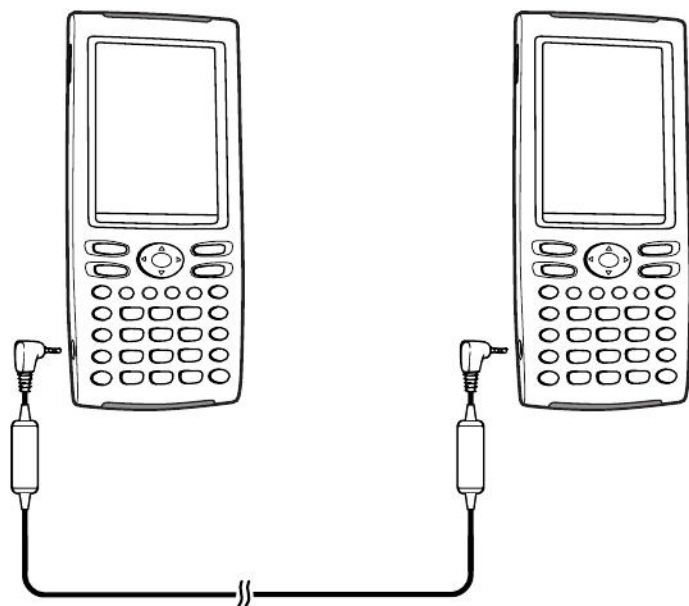


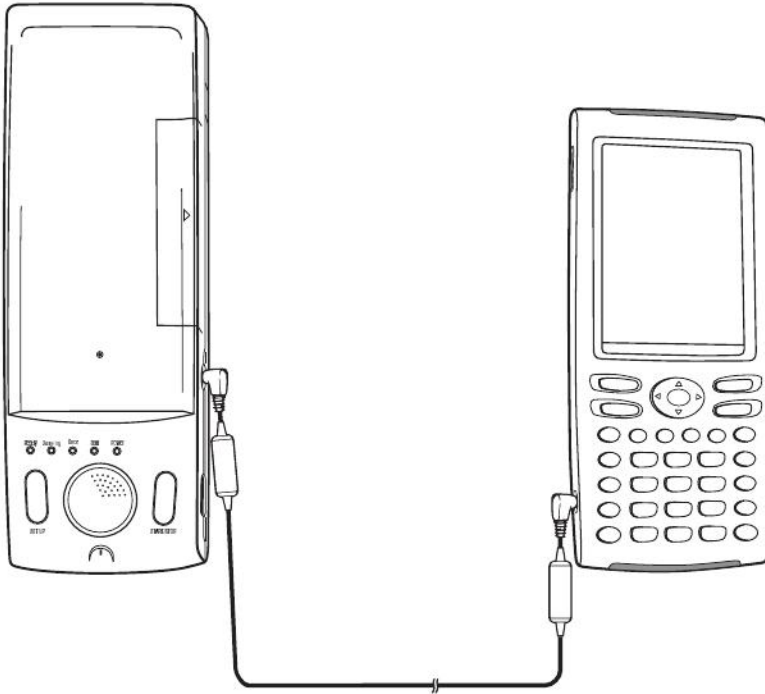


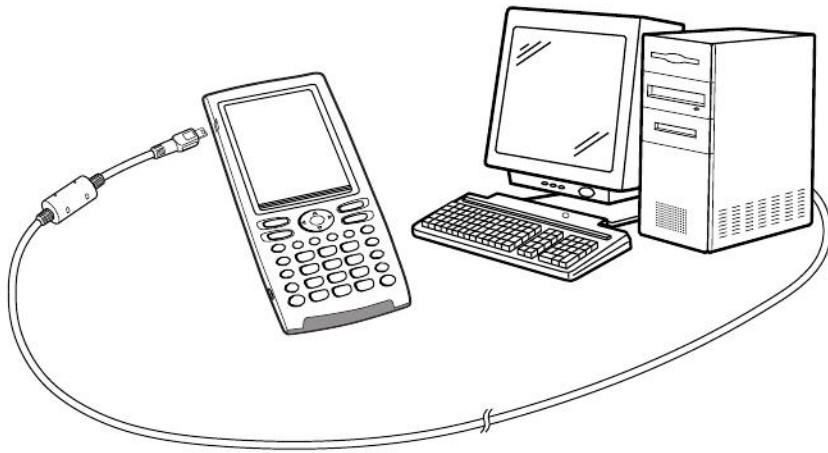















▼ Link Setup



Current Settings:
USB cable
Wakeup Enabled

Communication ✕

Screen Copy To

Cable Type

Speed(3Pin)

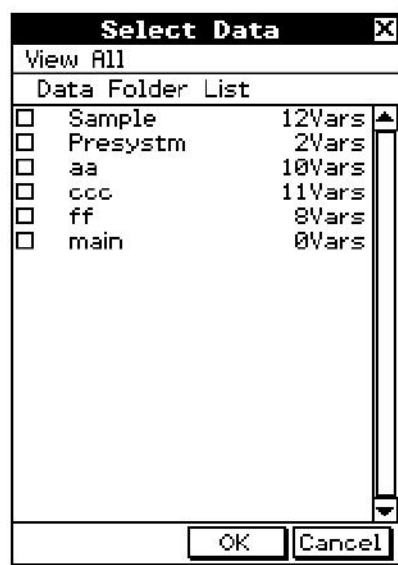
Wakeup Enable















Select Data		X
View All		
Data Folder List		
<input type="checkbox"/>	Sample	12Vars
<input type="checkbox"/>	Presystm	2Vars
<input type="checkbox"/>	aa	10Vars
<input type="checkbox"/>	ccc	11Vars
<input type="checkbox"/>	ff	8Vars
<input type="checkbox"/>	main	0Vars





Select Data [X]

View All

Data Folder List

<input type="checkbox"/>	Sample	12Vars
<input type="checkbox"/>	Presystm	2Vars
<input type="checkbox"/>	aa	10Vars
<input type="checkbox"/>	ccc	11Vars
<input type="checkbox"/>	ff	8Vars
<input type="checkbox"/>	main	0Vars

[OK] [Cancel]



Select Data [X]

View All

Presystm

<input type="checkbox"/>	PreFilNo	STR	4
<input type="checkbox"/>	PreFiles	LIST	244

[Back] [OK] [Cancel]

Select Data [X]

View All

eActivity Folder List

<input type="checkbox"/>	e-Act1
<input type="checkbox"/>	e-Act2
<input type="checkbox"/>	e-Act3
<input type="checkbox"/>	e-Act4
<input type="checkbox"/>	e-Act5
<input type="checkbox"/>	main

[Back] [OK] [Cancel]



Select Data [X]

View All

e-Act2

<input type="checkbox"/>	Example1
<input type="checkbox"/>	Example2
<input type="checkbox"/>	Example3
<input type="checkbox"/>	Example4
<input type="checkbox"/>	Example5

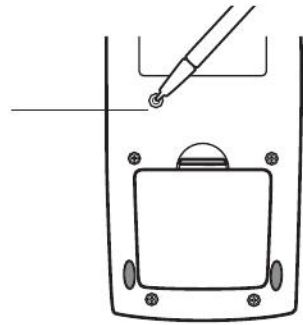
[Back] [OK] [Cancel]









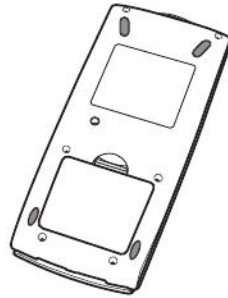
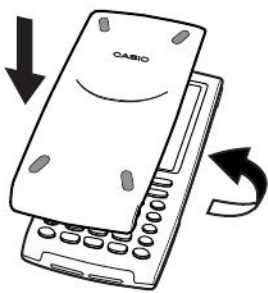
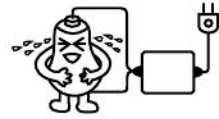


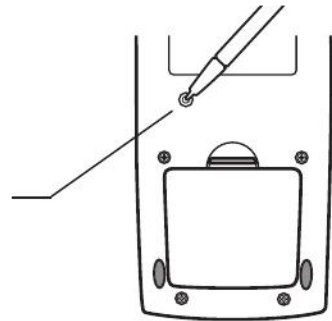
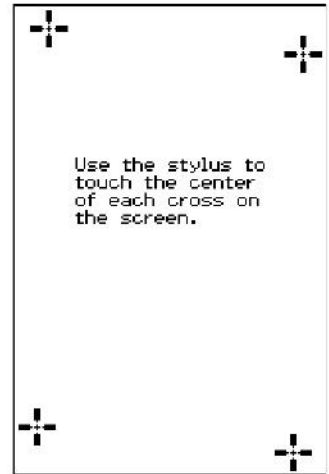
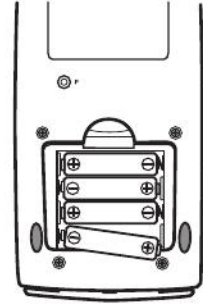
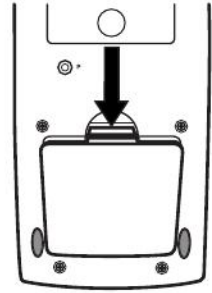


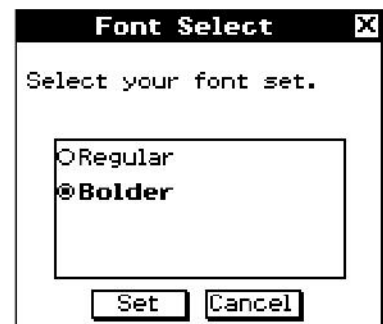
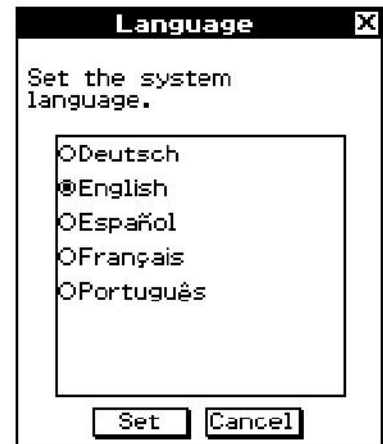
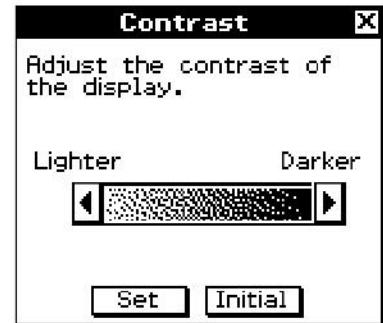
ESC













Power Properties [X]

Power Save Mode

1 day [v]

After the selected time, this unit will enter the power save mode.

Auto Power Off

6 min [v]

After the selected time, power is turned off automatically.

[Set] [Cancel]





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