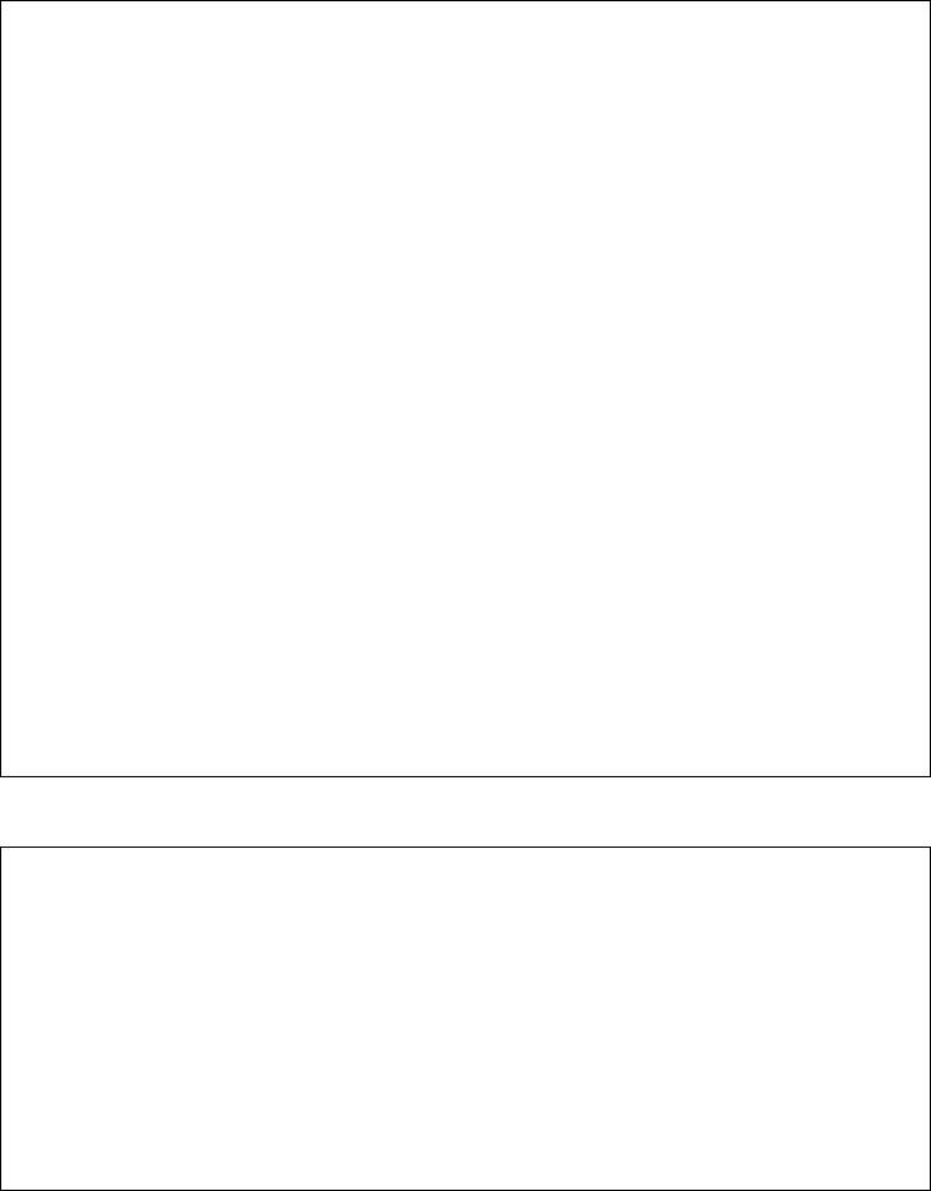




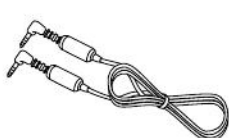

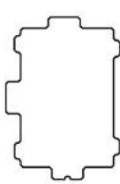
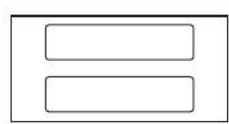
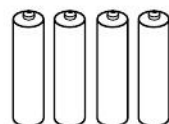
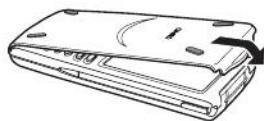
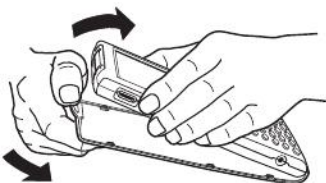
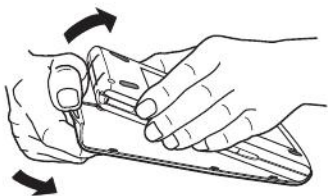


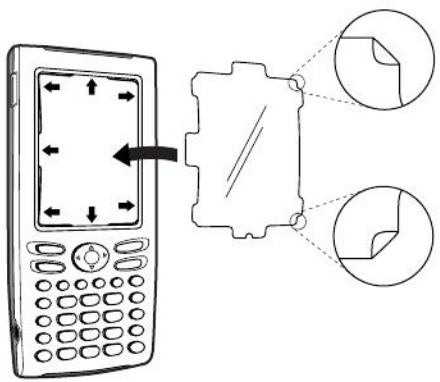
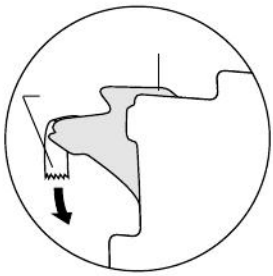
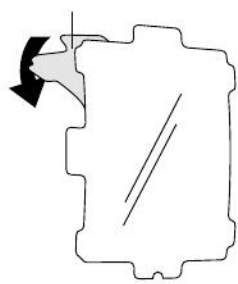
CASIO®

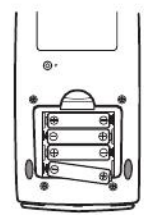
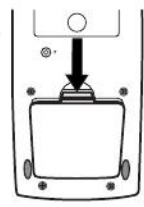
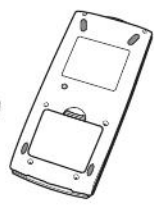
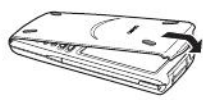
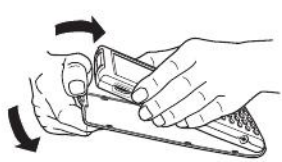


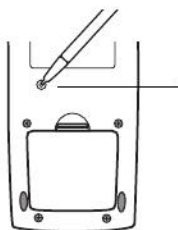




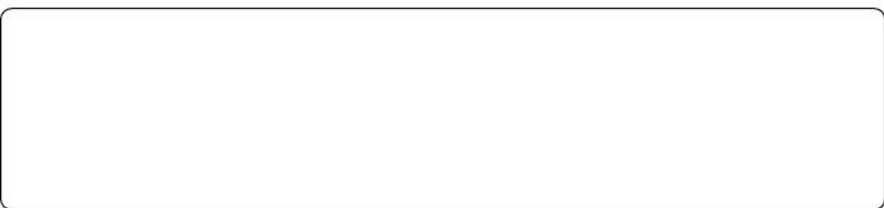


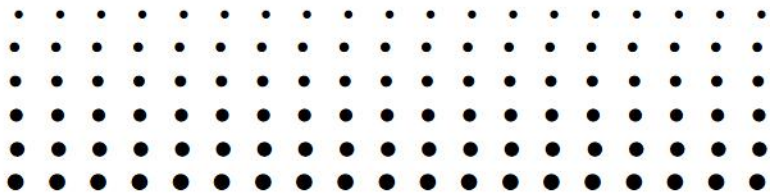












ClassPad 300















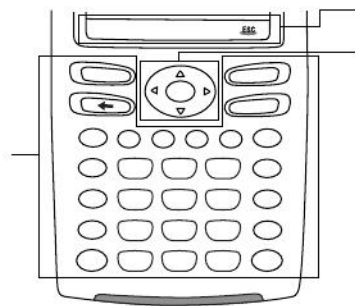












ESC



▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3

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

y2: 0

y3: 0

y4: 0

y5: 0

y6: 0

y7: 0

lnth	abc	cat	2D	X	Y	Z
π	0	∞	<	>	↵	↵
log	ln	f	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		

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 ◆

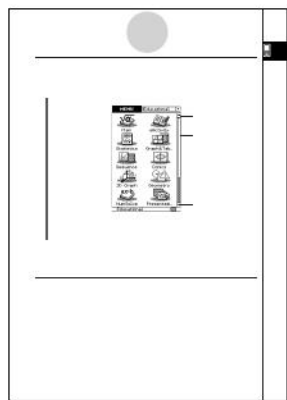
- Cls
- Plot
- Line
- Text
- Tangent
- Normal
- Inverse
- Circle
- Vertical
- Horizontal

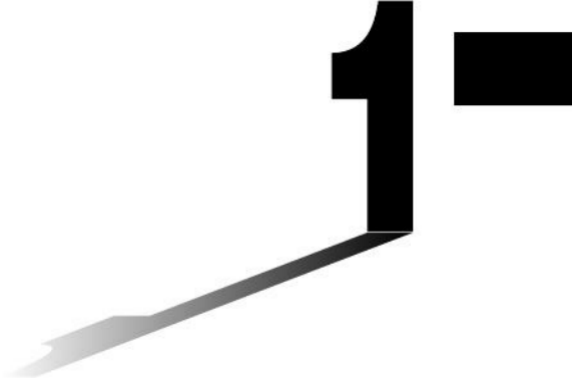
▼ Edit Zoom Analysis ◆

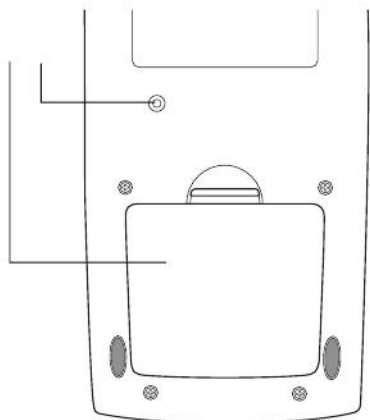
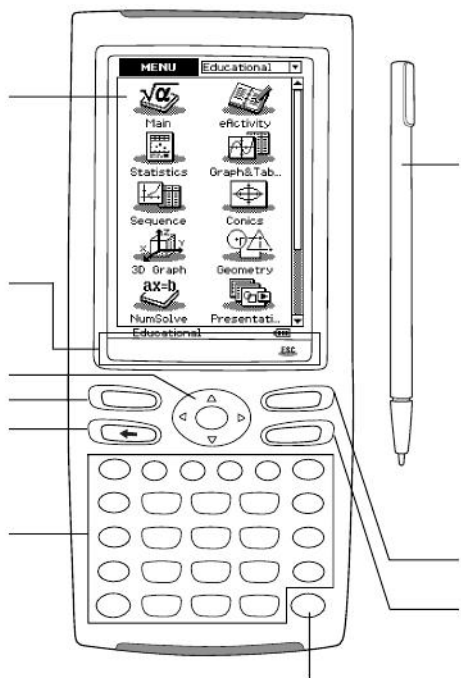
- Cls
- Plot
- Line
- Text
- Tange
- Normal
- Inverse
- Circle
- Vertical
- Horizontal

▼ Edit Zoom Analysis ◆

- Trace
- Sketch
- G-Solve
- Modify




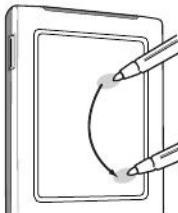






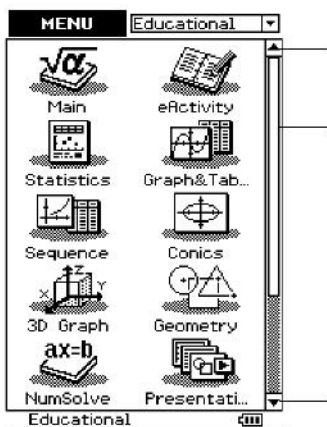




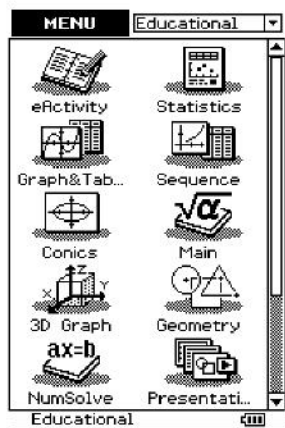
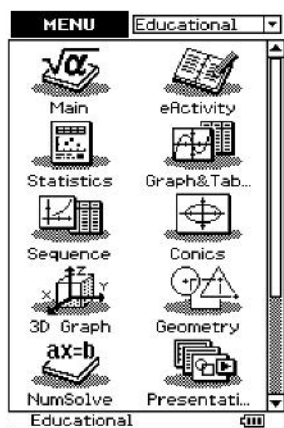
		
		













▼ Edit Action Interactive

0.5 | /dx... | a=... | V1...
 ↵ | /dx... | b=... | V2... ▶

π	θ	∫	∞	<	>	∫	∫	∫	∫	∫	∫
log	ln	f		7	8	9	^	=			
x ²	e ^x	x ⁻¹		4	5	6	x	+			
<	>	|x|		1	2	3	+	-			
[	]	(-)		0	.	E	ans				
TRIG	CALC	OPTN	VAR	EXE							

Alg Standard Cplx Rad

▼ Edit Zoom Analysis

f(x,y)

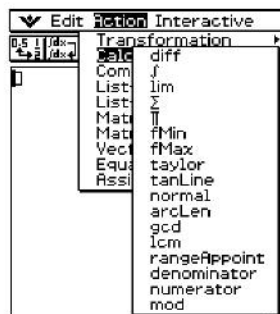
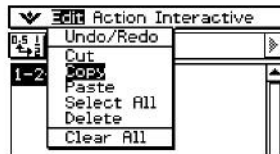
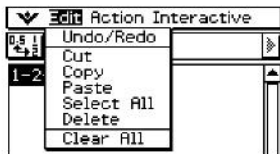
Conics Equation:

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

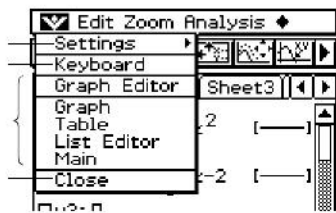
Rad Cplx

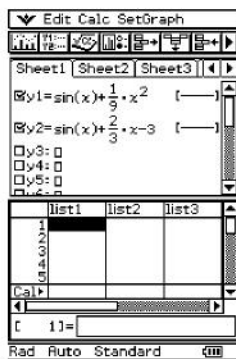
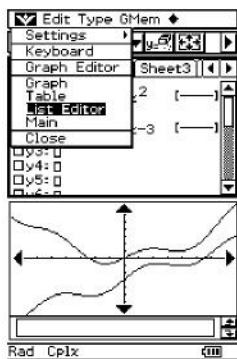
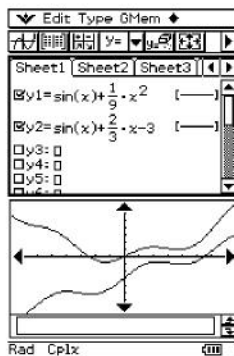
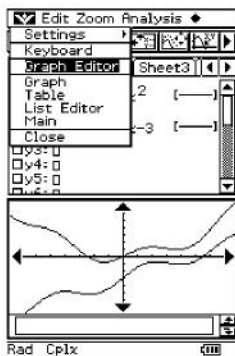
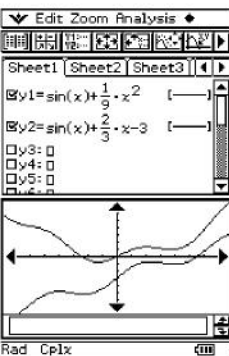


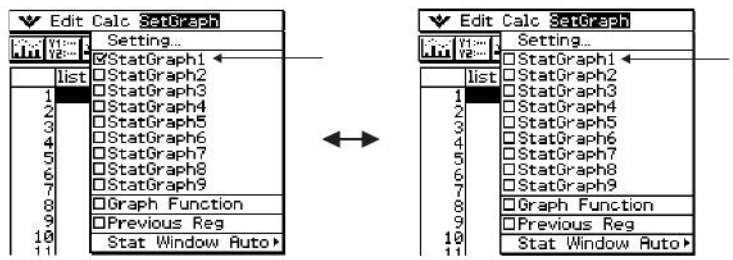
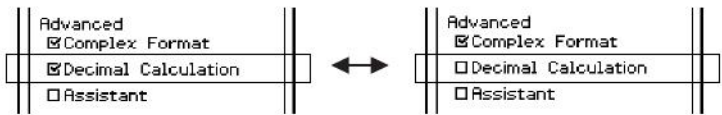
Edit Action Interactive						
0	5	1	fdx	a...	V1...	
			fdx	b...	V2...	

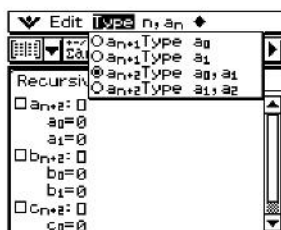
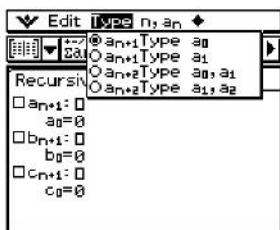


lim()











Swap
[]
[]



▼ Edit Type GMem ◆

y= ▼ y= ▶

Sheet1 Sheet2 Sheet3 ◀ ▶

□y1: □ ▲

y= ▼ y= ▶

y=	x+=	}
r=	x=	
y>	x>	
y<	x<	
y≥	x≥	
y≤	x≤	

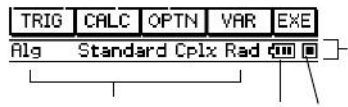
y= ▼ y= ▶

↕

▶

$\frac{a}{b}$

$\frac{a}{b}$

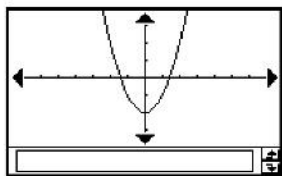
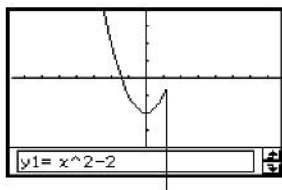


-
-
-
-





□





▼ Edit Calc SetGraph

	list1	list2	list3
1	1	138	17
2		168	45
3		155	33
4		154	18
5		168	14

Cal▶

[1] = 1

Rad Auto Standard



▼ Edit Calc SetGraph

	list1	list2	list3
1		138	17
2		168	45
3		155	33
4		154	18
5		168	14

Cal▶

[1] = 1

math	abc	cat	2D			
π	θ	$\frac{1}{\square}$	$()$	\rightarrow	\leftarrow	\leftrightarrow
log	ln	f	7	8	9	\wedge =
x^2	e^x	x^{-1}	4	5	6	\times +
\square	\square	|x|	1	2	3	+ -
[	]	$\langle - \rangle$	0	.	e	ans
TRIG	CALC	OPTN	VAR	EXE		

Rad Auto Standard



mth	abc	cat	2D	X	↵	↩			
π	θ	i	\emptyset	$\langle \rangle$	\Rightarrow	\times	$\sqrt{\quad}$	\int	\leftarrow
log	ln	f		7	8	9	^	=	
x^2	e^x	x^{-1}		4	5	6	\times	\div	
\langle	\rangle	$ x|$		1	2	3	+	-	
[	]	$\langle - \rangle$		\emptyset	.	e	ans	
TRIG	CALC	OPTN	VAR	EXE					

mth	abc	cat	2D	X	↵	↩					
1	2	3	4	5	6	7	8	9	0	\leftarrow	
q	w	e	r	t	y	u	i	o	p	-	
%	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	↵	↩						
abs(
absExpand(
andConnect(
angle(
approx(
arcLen(
arg(
Form												
Func												
INPUT												
EXE												
\leftarrow	A	B	C	D	E	F	G	H	I	J	K	\rightarrow

mth	abc	cat	2D	X	↵	↩			
π	θ	i	\emptyset	$\langle \rangle$	\Rightarrow	\times	$\sqrt{\quad}$	\int	\leftarrow
$\frac{\square}{\square}$	$\sqrt{\square}$	$\sqrt[\square]{\square}$		7	8	9	^	=	
x^{\square}	e^{\square}	$\log_{\square}\square$		4	5	6	\times	\div	
\square	$\langle \rangle$	{list}		1	2	3	+	-	
				\emptyset	.	e	ans		
				\int	VAR	EXE			



mth	abc	cat	2D	✖	↵	↩
π	θ	$\frac{\square}{\square}$	$\langle \rangle$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
log	ln	\int	7	8	9	\wedge =
x^2	e^{x^x}	x^{-1}	4	5	6	$\times \div$
\langle	\rangle	$ x|$	1	2	3	$+ -$
[	]	$\langle - \rangle$	\emptyset	.	E	ans
TRIG	CALC	OPTN	VAR	EXE		



mth	abc	cat	2D	✖	↵	↩
π	θ	$\frac{\square}{\square}$	$\langle \rangle$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
$\frac{\square}{\square}$	$\sqrt{\square}$	$\sqrt[\square]{\square}$	7	8	9	\wedge =
x^{\square}	e^{\square}	$\log_{\square} \square$	4	5	6	$\times \div$
\square	()	(list)	1	2	3	$+ -$
			\emptyset	.	E	ans
			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



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

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

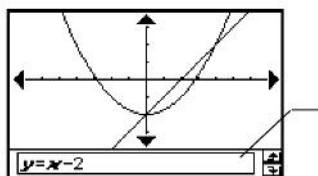
$$y=3x^2+5x-8$$



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

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

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



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



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

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

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

solv

dSlv

mth		abc	cat	2D	\times	\uparrow	\downarrow
π	θ	i	ω	\langle	\rangle	\rightarrow	\leftarrow
\neq	\langle	\rangle	\leq	\geq	\cdot	7	8
"	#	|	\angle	n	-	4	5
a_n	b_n	c_n				1	2
+1	+2	rSlv				0	.
TRIG	CALC	\leftarrow	VAR	EXE			

rSlv



mth	abc	cat	2D	X	↕	↻			
a	b	c	d	e	<	>	,	↵	←
f	g	h	i	j	7	8	9	^	=
k	l	m	n	o	4	5	6	x	÷
p	q	r	s	t	1	2	3	+	-
↶	u	v	w	0	.	ε	ans		
x	y	z							
TRIG	CALC	OPTN	↵	EXE					

mth	abc	cat	2D	X	↕	↻			
A	B	C	D	E	<	>	,	↵	←
F	G	H	I	J	7	8	9	^	=
K	L	M	N	O	4	5	6	x	÷
P	Q	R	S	T	1	2	3	+	-
↶	U	V	W	0	.	ε	ans		
X	Y	Z							
TRIG	CALC	OPTN	↵	EXE					

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							

mth	abc	cat	2D	X	↕	↻					
!	@	#	\$	%	∅	&	*	<	>	←	
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							



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				
ι	ι	ι	ι	ι	ι	ι
ι	ι	ι	ι	ι	ι	ι
ι	ι	ι	ι	ι	ι	ι
ι	ι	ι	ι	ι	ι	ι
←	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
ā	ā	ā	ā	ā	ā	ā
←	MATH	SPACE	SMBL	EXE		

mth	abc	cat	2D	X	↕	↩
z	z	z	z	z	z	z
z	z	z	z	z	z	z
z	z	z	z	z	z	z
z	z	z	z	z	z	z
z	z	z	z	z	z	z
z	z	z	z	z	z	z
z	z	z	z	z	z	z
z	z	z	z	z	z	z
←	MATH	SPACE	SMBL	EXE		

mth	abc	cat	2D	X	↕	↩
+	-	x	/	^	=	≠
<	>	≤	≥	≈	≅	≅
±	≡	≅	≅	≅	≅	≅
√	∑	∏	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
←	SPACE	SMBL	EXE			

mth	abc	cat	2D	X	↕	↩
0	1	2	3	4	5	6
7	8	9	+	-	*	/
-1	i	j	k	m	n	x
y	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
←	SPACE	SMBL	EXE			

mth	abc	cat	2D	X	↕	↩
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
←	SPACE	SMBL	EXE			

mth	abc	cat	2D	X	↕	↩
!	"	#	\$	%	&	'
()	*	.	,	;	:
;	?	@	[\]	_
^	^	^	^	^	^	^
^	^	^	^	^	^	^
^	^	^	^	^	^	^
^	^	^	^	^	^	^
←	MATH	SPACE	↩	EXE		

mth	abc	cat	2D	X	↕	↩
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
∫	∫	∫	∫	∫	∫	∫
←	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([EXE]
arcLen([EXE]
arg([EXE]

[<] [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 [INPUT]
PlotOff [EXE]
PlotOn [EXE]
PoissonCD [EXE]
PoissonPD [EXE]

Pause [▲] Form
Plot [▼] Cmd
PlotChg [INPUT]
PlotOff [EXE]
PlotOn [EXE]
PoissonCD [EXE]
PoissonPD [EXE]

Plot [▲]



mth	abc	cat	2D	\times	\div	\rightarrow
π	θ	i	∞	$\langle \rangle$	\rightarrow	\leftarrow
$\frac{\square}{\square}$	$\sqrt{\square}$	$\sqrt[\square]{\square}$	7	8	9	\wedge =
x^{\square}	e^{\square}	\log_{\square}	4	5	6	\times \div
\square	$\langle \rangle$	{list}	1	2	3	+ -
			0	.	E	ans
						VAR EXE

mth	abc	cat	2D	\times	\div	\rightarrow
π	θ	i	∞	$\langle \rangle$	\rightarrow	\leftarrow
$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	7	8	9	\wedge =
$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	4	5	6	\times \div
$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$	1	2	3	+ -
$\lim_{\square \rightarrow 0}$	$\frac{d}{d\square}$	\int_{\square}	0	.	E	ans
						VAR EXE

mth	abc	cat	2D	\times	\div	\rightarrow		
a	b	c	d	e	$\langle \rangle$	\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		0	.	E	ans
	x	y	z					EXE

mth	abc	cat	2D	\times	\div	\rightarrow		
A	B	C	D	E	$\langle \rangle$	\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		0	.	E	ans
	X	Y	Z					EXE



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

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

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

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

$$\frac{1}{5} + \frac{3}{7}$$



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

$$\sum_{k=1}^n (0)$$

$$\sum_{k=1}^{n!} (0)$$



x^n

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

$$\int_a^b f(x) dx$$

x^n

$$\int_a^b (1-x^2)e^x dx$$

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









NewFolder Test

done



mth	abc	cat	2D			
π	θ	\int	$\langle \rangle$	\circ	\rightarrow	\leftarrow
log	ln	$\sqrt{\quad}$	7	8	9	$\wedge =$
x^e	e^x	x^{-1}	4	5	6	$\times \div$
\langle	\rangle	$ x|$	1	2	3	$+ -$
[	]	$\langle - \rangle$	0	.	E	ans
TRIG	CALC	OPTN	VAR	EXE		

$2x+1 \neq e^1$

$2 \cdot x + 1$



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

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

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

$$\left| \begin{array}{l} (1, 2, 3) \Rightarrow \text{eq1} \\ (1, 2, 3) \end{array} \right|$$

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



└

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

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

┆

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

┆

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

┆



eq2

(4, 5, 6)



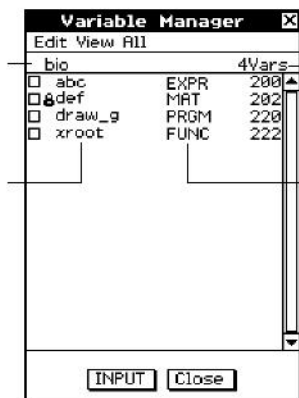
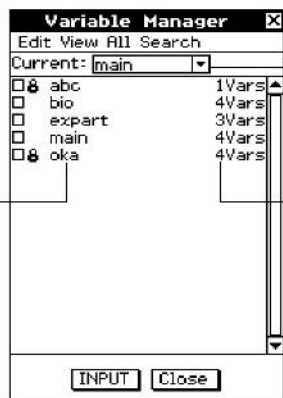
	list5	list6	
1			
2			
3			
4			
5			
Cal			
[1] =			

	list5	list6	list_t
1			12
2			24
3			36
4			
5			
Cal			
[4] =			







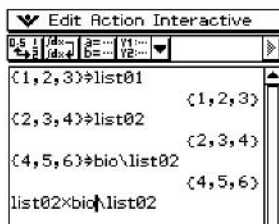
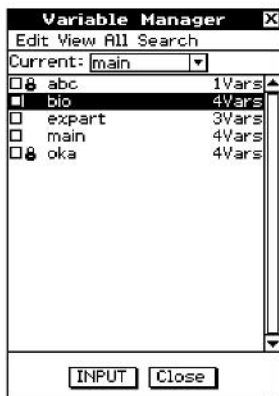
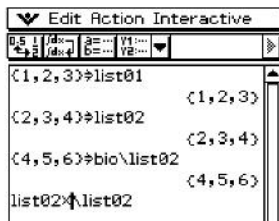




Variable Manager		
Edit View All Search		
Current: main		
<input type="checkbox"/>	abc	1Vars
<input type="checkbox"/>	bio	4Vars
<input type="checkbox"/>	expart	3Vars
<input type="checkbox"/>	main	4Vars
<input type="checkbox"/>	oka	4Vars









Variable Type ✕

ALL ▾

OK Cancel





Copy ✕

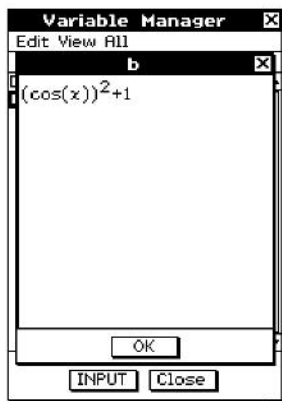
Copy variables to another folder.

To: ▾





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





▼ Edit Action Interactive

0.5 | /ds | 3=... V1... | 3=... 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+b)

Variable Manager

Edit View All

bio 4Vars

list	EXPR	72
<input checked="" type="checkbox"/> b		
<input type="checkbox"/> list01	LIST	96
<input type="checkbox"/> list02	LIST	96
<input type="checkbox"/> p01	PICT	3576

INPUT Close

▼ Edit Action Interactive

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

(1,2,3)→list01 {1,2,3}

(2,3,4)→list02 {2,3,4}

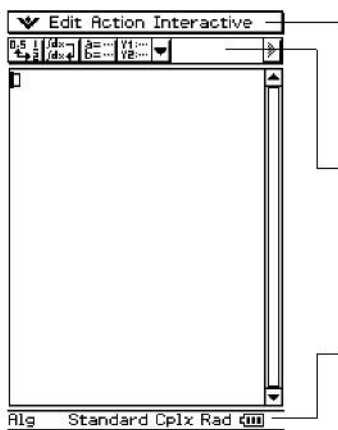
(4,5,6)→bio\list02 {4,5,6}

list02×bio\list02 {8,15,24}

(cos(x))^2+1→bio\b (cos(x))^2+1

simplify(sin(x)^2+bio\b)







▼ Edit Action Interactive

0.5 $\frac{1}{x}$ $\frac{d}{dx}$ $\frac{1}{x}$ $\frac{d}{dx}$ a=... Y1:... b=... Y2:...

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

$\frac{5}{6}$

mth abc cat 2D \times \uparrow \downarrow

π θ i ∞ $($ $)$ $,$ \div \times y z r \leftarrow

$\frac{\square}{\square}$ $\sqrt{\square}$ $\sqrt[\square]{\square}$ 7 8 9 $^$ =
4 5 6 \times \div
 x^{\square} e^{\square} \log_{\square} 1 2 3 + -
 \square $($ $)$ $\{list\}$ 0 . E ans
VAR EXE

Alg Standard Cplx Rad $\langle III \rangle$





▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3 |

y1 = $x^3 + x^2 + x + 1$ [←→]

y2: 0

y3: 0

y4: 0

y5: 0

y6: 0

y7: 0

y8: 0

0



▼ Edit Action Interactive

Sheet1 | Sheet2 | Sheet3 |

y1 = $x^3 + x^2 + x + 1$ [←→]

y2: 0

y3: 0

y4: 0

y5: 0

y6: 0

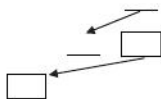
y7: 0

y8: 0

$x^3 + x^2$



$2.54E3$	2540
$1600E-4$	0.16



$123+456$	579
$789-\text{ans}$	210
$\text{ans}/7$	30

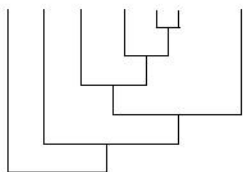


2/0

Undefined



$\sqrt{\quad}$





		—
		—
$\sqrt{\quad}$		$\sqrt{\quad}$
		—
		<u> </u> $\sqrt{\quad}$



		—

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



	—	—
		—

▼ Edit Action Interactive

$x^2+2\cdot x+1$
 factor(ans)
 $(x+1)^2$
 solve($x^3-x^2+x-1=0$, x)
 $(x=1, x=-1, x=i)$
 $\{36, 49, 64\}$ → list1
 f(list1)
 $\{6, 7, 8\}$
 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

$\frac{4115}{333}$
 $\frac{12345}{9999}$
 $\frac{4115}{3333}$
 $\frac{12345}{99999}$
 $\frac{4115}{33333}$
 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

$\frac{12345}{9}$
 $\frac{4115}{3}$
 $\frac{12345}{99}$
 $\frac{4115}{33}$
 $\frac{12345}{999}$
 $\frac{4115}{333}$
 $\frac{12345}{9999}$
 $\frac{4115}{3333}$
 $\frac{12345}{99999}$
 $\frac{4115}{33333}$

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 | /div | 3=... | V1... | ▾

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

Alg Standard Cplx Rad **DE**

Edit Action Interactive

0.5 | /div | 3=... | V1... | ▾

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

Alg Decimal Cplx Rad **DE**









					T	T
—						
					T	



√



√					
√					
					T

√



—					
—					



$\sqrt{\quad}$



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



					int









					◀



					<input type="checkbox"/>

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

					<input type="checkbox"/>



					VI

					V
					V



▼ Edit Action Interactive

0.5	1	1/2	3=...	11...
1/2	1/2	3=...	12...	▼

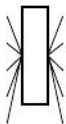
{1,2,3}⇒lista {1,2,3}

□



<code>(1,2,3)→lista</code>	<code>(1,2,3)</code>
<code>lista[2]</code>	<code>2</code>

<code>(1,2,3)→lista</code>	<code>(1,2,3)</code>
<code>lista[2]</code>	<code>2</code>
<code>5→lista[2]</code>	<code>(1,5,3)</code>



```
{41, 65, 22}⇒list3  
list3×{6, 0, 4} {41, 65, 22}  
{246, 0, 88}
```



[]

▼ Edit Action Interactive

0,5	1	/dx	3=...	Y1...
1	2	/dx	6=...	Y2...

[[1,2][3,4]]#mat1

1	2
3	4

□

[]

[]

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

```
mat1[2,1] 3  
5#mat1[1,2] 3  
      [ 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]
```



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

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

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

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

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

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

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

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

[]

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

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

[]

$$[[1,2][3,4]]^3$$

37	54
81	118

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

37	54
81	118



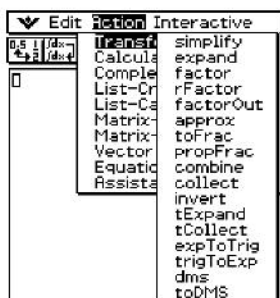
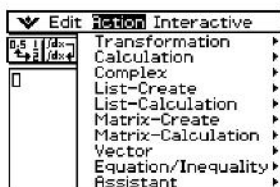


```
4) 2][3,4]], [[5,6][7,8]])  
    [ 1 2 5 6 ]  
    [ 3 4 7 8 ]
```

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

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

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



√

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

$$2 + \sqrt{3}$$

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

$$(\cos(x))^2$$



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

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

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

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

$\sqrt{\quad}$


```
approx( $\sqrt{2}$ )  
1.414213562
```

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

```
toFrac(5.28)  
 $\frac{132}{25}$ 
```

```
propFrac(1.2)  
 $1 + \frac{1}{5}$ 
```

```
propFrac( $x^2/(x-1)$ )  
 $x+1 + \frac{1}{x-1}$ 
```


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

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

$$\text{invert}(2x=y)$$
$$2y=x$$

$$\text{tExpand}(\sin(a+b))$$
$$\cos(b)\sin(a)+\sin(b)\cos(a)$$



$$\text{tCollect}(\cos(a)\times\cos(b))$$
$$\frac{\cos(a+b)+\cos(a-b)}{2}$$

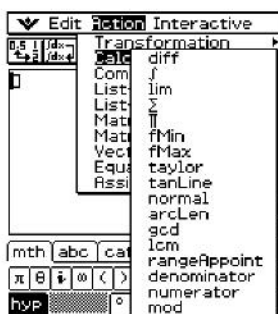
$$\text{expToTrig}(e^{ix})$$
$$\cos(x)+\sin(x)\cdot i$$

$$\text{trigToExp}(\cosh(x))$$
$$\frac{e^x+e^{-x}}{2}$$

$$\text{dms}(3, 5, 6)$$
$$\frac{617}{200}$$

toDMS(3.085)

dms(3,5,6)



diff(x^6)

$6 \cdot x^5$

diff($x^6, x, 2$)

$30 \cdot x^4$

diff($x^6, x, 2, 3$)

2430



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

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

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



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

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

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

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

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



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}



fMax($-x^2+1, x$)
{MaxValue=1, x=0}

fMax($-x^2+1, x, 2, 5$)
{MaxValue=-3, x=2}

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



taylor(sin(x), x, 5, 0)

$$\frac{x^5}{120} - \frac{x^3}{6} + x$$

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)

$$-\frac{8}{27} + \frac{80 \cdot \sqrt{10}}{27}$$



```
gcd(x+1, x^2-3*x-4)
x+1
```

```
lcm(x^2-1, x^2+2*x-3)
(x+1)*(x^2+2*x-3)
```

```
rangeRpoint((x=pi, x=2*pi, x=3*pi), 0, 5)
(x=pi)
```

```
rangeRpoint(constn(1)*pi, 0, 5)
{0, pi}
```

```
denominator((y-2)/(x+1))
x+1
```



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

$$\text{mod}(26, 3)$$

2

▼	Edit	Action	Interactive
0.5	1	1/dx	Transformation
4	2	1/dx	Calculation
			Calculation
			comp
			arg
			List-0 conjg
			List-0 re
			Matrix im
			Matrix cExpand
			Vecto compToPol
			Equat compToTrig
			Assistant

$$\text{arg}(2+i)$$

$$\tan^{-1}\left(\frac{1}{2}\right)$$



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

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

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

```
cExpand(cos-1(2))  
ln(2+√3)·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
0.5 | / | % | ^ | *	Transformation	▶
← | → | | / | % | ^ | *	Calculation	▶
□	Complex	▶
	list-Cr	seq
	List-Ca	augment
	Matrix-	fill
	Matrix-	sortA
	Vector-	sortD
	Equatio	shift
	Assista	rotate
		subList
		listToMat



```
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)
```



```
sortA(<1,5,3>)
      <1,3,5>
```

```
sortD(<1,5,3>)
      <5,3,1>
```

```
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>
```



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

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

▼ Edit Action Interactive

0 5 1 | dx:~ ← 2 | dx:~	Transformation	▶
	Calculation	▶
	Complex	▶
	List-Create	▶
	List-Ca	dim
	Matrix-	min
	Matrix-	max
	Vector	mean
	Equatio	median
	Assista	mode
		sum
		prod
		cum1
		dlist
		stdDev
		variance
		Q ₁
		Q ₃
		percent
		polyEval
		sequence
		sumSeq



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

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

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

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

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

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

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



```
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



```
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}
```

```
Δlist({1,2,4})  
{1,2}
```



stdDev({1,2,4})

$$\frac{\sqrt{21}}{3}$$

variance({1,2,4})

$$\frac{7}{3}$$

Q1({1,2,3,4,5})

$$\frac{3}{2}$$

Q1({1,2,3,4},{4,3,2,1})

$$1$$

Q3({1,2,3,4,5})

$$\frac{9}{2}$$

Q3({1,2,3,4},{4,3,2,1})

$$3$$



$$\text{percent}(\langle 1, 2, 3 \rangle)$$
$$\left\{ \frac{50}{3}, \frac{100}{3}, 50 \right\}$$

$$\text{polyEval}(\langle 1, 2, 3 \rangle)$$
$$x^2 + 2 \cdot x + 3$$

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

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



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

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

▼ Edit	Action	Interactive
0.5 | / | d | >	Transformation	>
← | + | / | d | >	Calculation	>
	Complex	>
	List-Create	>
	List-Calculation	>
	Matrix	trn
	Matrix-	augment
	Vector	ident
	Equatio	fill
	Assista	subMat
		diag
		matToList

$$\text{trn}(\llbracket 1, 2 \rrbracket \llbracket 3, 4 \rrbracket) \quad \begin{bmatrix} 1 & 3 \\ 2 & 4 \end{bmatrix}$$

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)

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

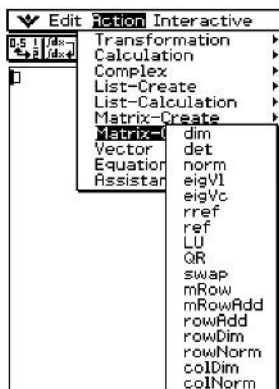
fill(3,[[1,2][3,4]])

$$\begin{bmatrix} 3 & 3 \\ 3 & 3 \end{bmatrix}$$

```
[[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)
```



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

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

```
norm([[1,2][4,5]])  
       $\sqrt{46}$ 
```



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

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

```
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]
```

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

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

$$L \begin{bmatrix} 1 & 0 & 0 \\ 4 & 1 & 0 \\ 7 & 2 & 1 \end{bmatrix}$$

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

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)`

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

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

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

`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
0.5 | 1/dx	Transformation	>
0.5 | 1/dx	Calculation	>
0	Complex	>
	List-Create	>
	List-Calculation	>
	Matrix-Create	>
	Matrix-Calculation	>
	Vector	
	Equation	augment
	Assistan	fill
		toRect
		toPol
		toSph
		toCyl
		dim
		crossP
		dotP
		norm
		unitV
		angle



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

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

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

√

```
toRect([√2,∠(π/4)])  
[1 1]
```



$$\text{toPol}([1,2])$$
$$\left[\sqrt{5} \angle \left(-\tan^{-1}\left(\frac{1}{2}\right) + \frac{\pi}{2} \right) \right]$$

$$\text{toSph}([1,1,1])$$
$$\left[\sqrt{3} \angle \left(\frac{\pi}{4} \right) \angle \left(\cos^{-1}\left(\frac{\sqrt{3}}{3}\right) \right) \right]$$

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



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

(1, 3)

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

[-2 4 -2]

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

44

```
norm([1, 2, 3])
```

$\sqrt{14}$



unitV([1,3,5])

$$\begin{bmatrix} \frac{\sqrt{35}}{35} & \frac{3 \cdot \sqrt{35}}{35} & \frac{\sqrt{35}}{7} \end{bmatrix}$$

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

$$\cos^{-1}\left(\frac{11 \cdot \sqrt{5}}{25}\right)$$

	▼ Edit	Action	Interactive
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	Transformation
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	Calculation
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	Complex
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	List-Create
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	List-Calculation
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	Matrix-Create
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	Matrix-Calculation
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	Vector
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	Solve
	$\frac{0.5}{1}$	$\frac{dx}{dx}$	Assis
			solve
			dSolve
			rSolve
			rewrite
			exchange
			eliminate
			getRight
			getLeft
			absExpand
			andConnect
			and
			or
			xor
			not



`solve(a*x+b=0)`

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

`solve((3*x+4*y=5, 2*x-3*y=-8), (x, y))`

$$\{x = -1, y = 2\}$$

$$\text{dSolve}(\langle y' = x, x, y, x=0, y=1 \rangle)$$

$$\left\{ y = \frac{x^2}{2} + 1 \right\}$$

√

$$\text{dSolve}(\langle y' = y+z, z' = y-z, x, \langle y, z \rangle, x=0, y=3, x=0, z=f(2)-3 \rangle)$$

$$\left\{ y = 2 \cdot e^{\sqrt{2} \cdot x} + e^{-\sqrt{2} \cdot x}, z = -2 \cdot e^{\sqrt{2} \cdot x} - e^{-\sqrt{2} \cdot x} + 2 \cdot \sqrt{2} \cdot e^{\sqrt{2} \cdot x} - \sqrt{2} \cdot e^{-\sqrt{2} \cdot x} \right\}$$

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

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

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

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

$$\text{rSolve}(\langle a_{n+1} = 3a_n + b_n, b_{n+1} = a_n + 3b_n, \langle a_1 = 2, b_1 = 1 \rangle \rangle)$$

$$\left\{ a_n = \frac{3 \cdot 4^{n-1} + 2^{n-1}}{2}, b_n = \frac{3 \cdot 4^{n-1} - 2^{n-1}}{2} \right\}$$



```
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
```

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



```
getLeft(y=2x^2+3x+5)
y
```

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

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

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



$x=3$ or $x>2$

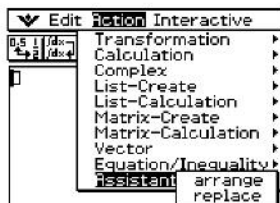
$x>2$

$x<2$ 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)
  
```



▼ Edit Action Interactive

0,5	1	/ds	a=...	Y1...
+	+	/ds	b=...	Y2...

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

▼ Edit Action Interactive

0,5	1	/ds	a=...	Y1...
+	+	/ds	b=...	Y2...

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

$(x-1)^3$



▼ Edit Action Interactive

0.5	1	/ds	3=...	V1:...	
←	→	/ds	6=...	V2:...	▶

factor(|

▼ Edit Action Interactive

0.5	1	/ds	3=...	V1:...	
←	→	/ds	6=...	V2:...	▶

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

▼ Edit Action Interactive

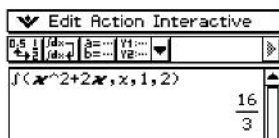
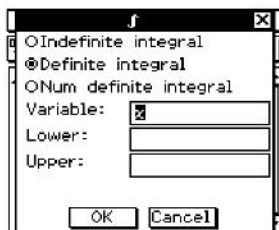
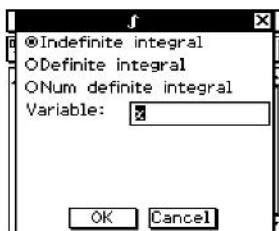
0.5	1	/ds	3=...	V1:...	
←	→	/ds	6=...	V2:...	▶

factor(x^3-3x^2+3x-1)
(x-1)³

▼ Edit Action Interactive

0.5	1	/ds	3=...	V1:...	
←	→	/ds	6=...	V2:...	▶

x^2+2x





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

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

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



▼ Edit Zoom Analysis ◆

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

□



▼ Edit Action Interactive

0.5 | /dx | 3=... | 7 |

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

□

0.5 | /dx | 3=... | 7 |

▼ Edit Zoom Analysis

0.5 | /dx | 3=... | 7 |

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

□

0.5 | /dx | 3=... | 7 |





▼ Edit Action Interactive

0.5 | /dx | a=... | y1=... |

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

□

Sheet1 | Sheet2 | Sheet3 |

□ y1: 0
□ y2: 0
□ y3: 0
□ y4: 0
□ y5: 0
□ y6: 0
□ y7: 0
□ y8: 0

▼ Edit Type GMem

$\frac{1}{x}$ | $\frac{d}{dx}$ | $\frac{d}{dx}$ | y= | y=

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

□

Sheet1 | Sheet2 | Sheet3 |

□ y1: x^2-1 [—]
□ y2: 0
□ y3: 0
□ y4: 0
□ y5: 0
□ y6: 0
□ y7: 0
□ y8: 0



▼ Edit Zoom Analysis ◆

Grid View: [Grid] [Off] [On] [Zoom] [Fit] [Full] [Reset]

Sheet1 | Sheet2 | Sheet3 | [Left] [Right]

$y_1 = x^2 - 1$ [—] [▲]

$y_2 = 0$

$y_3 = 0$

$y_4 = 0$

$y_5 = 0$

$y_6 = 0$

$y_7 = 0$

$y_8 = 0$



▼ Edit Calc SetGraph

0

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

Calc

[4] =

▼ Edit Action Interactive

0,5 1 /dc- a=... 000 ▼

list1+list2→list3

(5,7,9)

math 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							

▼ 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			

Calc

[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		

Cal ▶

[4] =

▼ Edit Calc SetGraph

	list5	list6	test
1			12
2			24
3			36
4			
5			

Cal ▶

[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 ; ' \backslash
 ↑ z x c v b n m , . /
 αβγ MATH SPACE SMBL EXE



▼ Edit Action Interactive

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

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

$x^2+y^2=1$

$x^2+y^2=1$

□



▼ Edit Action Interactive

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

$\begin{bmatrix} 1.88 \\ 2.5 \end{bmatrix}$

Rig Standard Cplx Rad $\frac{1}{100}$

▼ Edit Action Interactive

$x^2 + y^2 + 11x - 8.75 = 0$

Rig Standard Cplx Rad $\frac{1}{100}$

▼ Edit Action Interactive

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

Rig Standard Cplx Rad $\frac{1}{100}$



▼ Edit Action Interactive

0,5 | /dx | a=... | /dx | b=... | [] | [] | [] | [] | [] | []

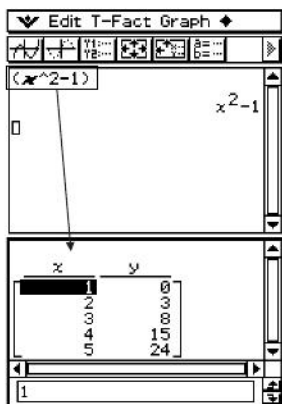
(←) 2-1) $x^2 - 1$

□

[$\frac{x}{Null}$ $\frac{y}{Null}$]

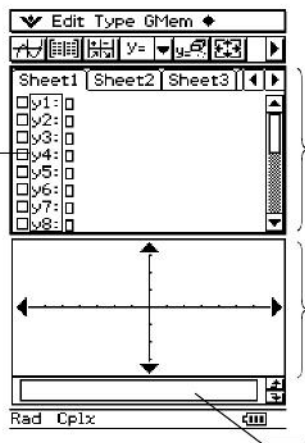
← | →

□



3





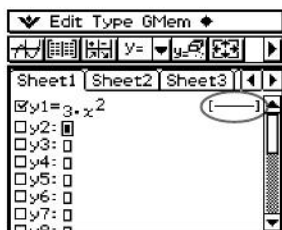
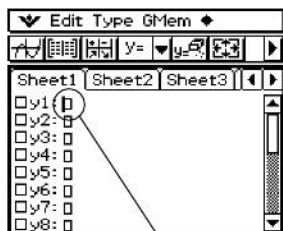
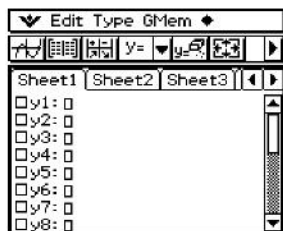


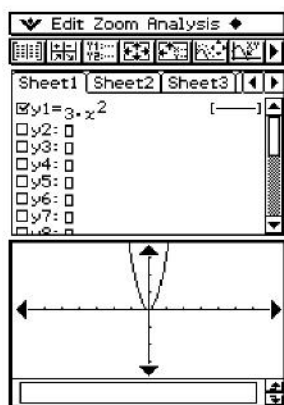
Rad Cplx



| |









▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3 |

$y1 = 3 \cdot x^2$ $r =$ $x =$ [—]

$y2:$ $y >$ $x >$

$y3:$ $y <$ $x <$

$y4:$ $y \geq$ $x \geq$

$y5:$ $y \leq$ $x \leq$

$y6:$

$y7:$

$y8:$

▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3 |

$y1 = 3 \cdot x^2$ $r =$ $x =$ [—]

$y2:$ $y >$ $x >$

$y3:$ $y <$ $x <$

$y4:$ $y \geq$ $x \geq$

$y5:$ $y \leq$ $x \leq$

$y6:$

$y7:$

$y8:$

▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3 |

$y1 = 3 \cdot x^2$ [—]

$r2:$

$r3:$

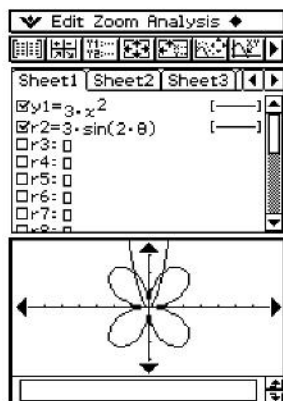
$r4:$

$r5:$

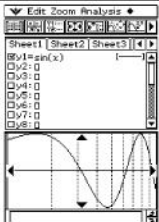
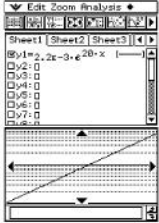
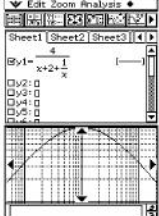
$r6:$

$r7:$

$r8:$

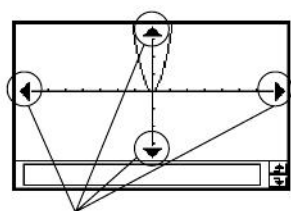




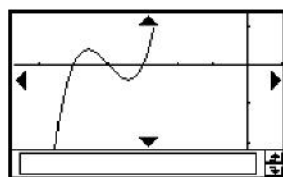
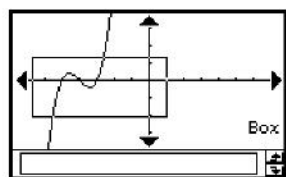
	
	
	

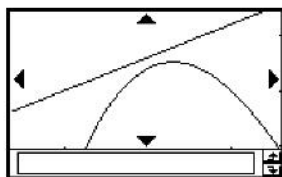
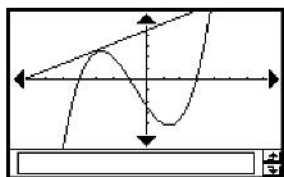








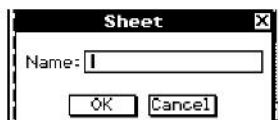
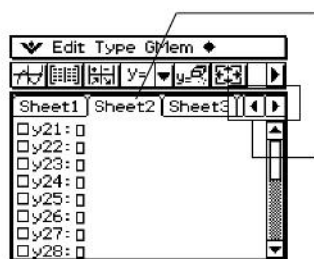




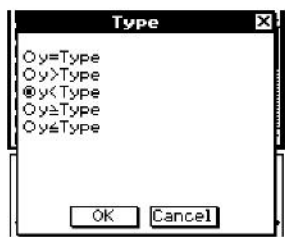


















▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3

y21 = $x^2 - 2$ [—] ▲

y22 = $(x+5) \cdot (x+4)$ [→] ▲

r23 = $3 \cdot \sin(2 \cdot \theta)$ [.....] ▲

y24 = $x^2 - \frac{2}{3} \cdot x^3$ [.....] ▲

y25 = $x - 1$ [.....] ▲

y26 = □ [.....] ▲

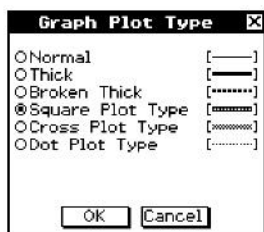
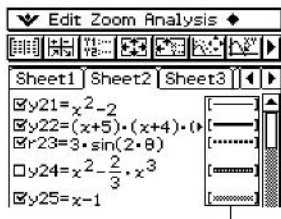
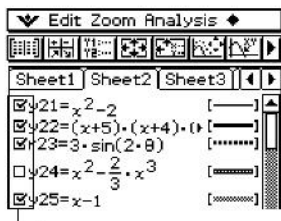








Table Input [X]

Start:

End:

Step:

	list1	list2	list3
1	-2		
2	1		
3	0		
4	1		
5	2		

Cal

[11 = -2

Table Input

Start : -3

End : 3

Step : 1

OK Cancel

▼ Edit T-Fact Graph ◆

Sheet1 | Sheet2 | Sheet3

$y_1 = 3 \cdot x^2 - 2$

$y_2 = 0$

$y_3 = 0$

$y_4 = 0$

$y_5 = 0$

$y_6 = 0$

$y_7 = 0$

$y_8 = 0$

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

-3

▼ Edit T-Fact Graph ◆

Sheet1 | Sheet2 | Sheet3

$y_1 = 3 \cdot x^2 - 2$

$y_2 = 0$

$y_3 = 0$

$y_4 = 0$

$y_5 = 0$

$y_6 = 0$

$y_7 = 0$

$y_8 = 0$

x	y1	y'1
-3	25	-18
-2	10	-12
-1	1	-6
0	-2	0
1	1	6

-3

▼ Edit T-Fact Graph ▾

Sheet1 | Sheet2 | Sheet3

y1 = $3 \cdot x^2 - 2$ [—]

y2: 0

y3: 0

y4: 0

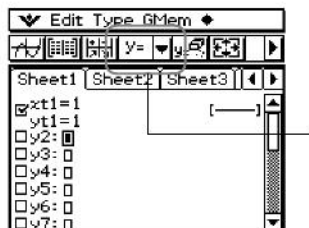
y5: 0

y6: 0

y7: 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
-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



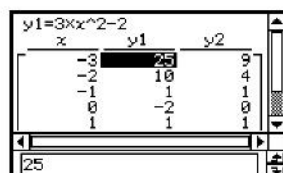
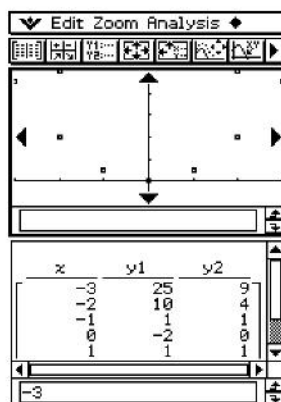
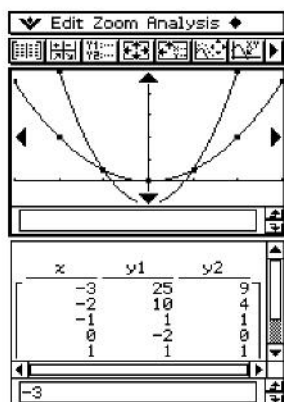
▼ Edit T-Fact Graph ▾

y1 = $3 \cdot x^2 - 2$ [---] ▲
 y2 = x^2 [---] ▲
 y3: 0
 y4: 0
 y5: 0
 y6: 0
 y7: 0

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

-3





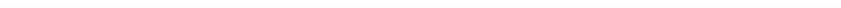
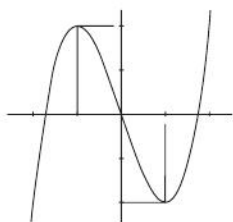
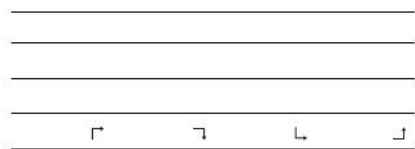


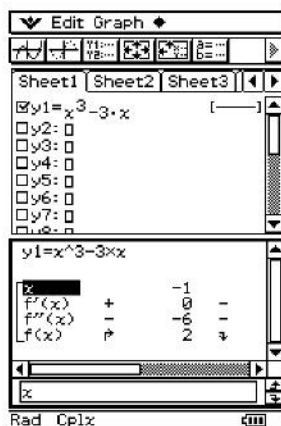
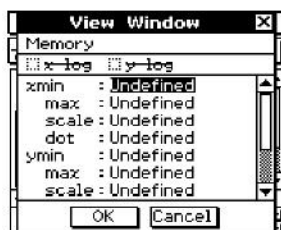
Store Data [X]

LIST

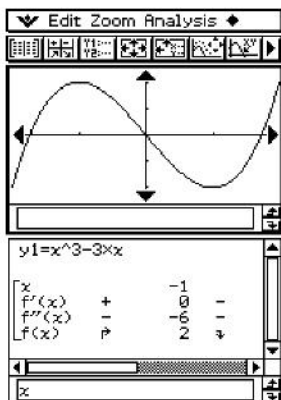
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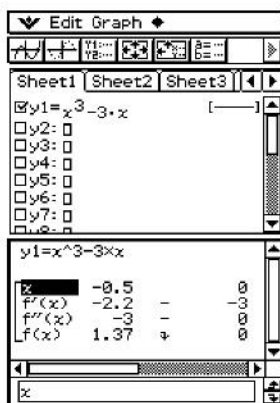
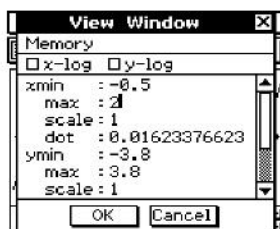
Name:





x			-1				
f'(x)	+		-				
f''(x)	-	0	-				
f(x)	+	2	+				







▼ Edit Calc SetGraph

View View Calc View Calc View Calc View Calc View Calc View Calc View Calc View 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			
6				

Cal ▶

[6] =

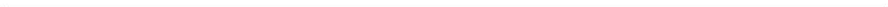
▼ Edit Graph ◆

y1 = $x^3 - 3 \cdot x$ [—]
 y2: 0
 y3: 0
 y4: 0
 y5: 0
 y6: 0
 y7: 0
 y8: 0

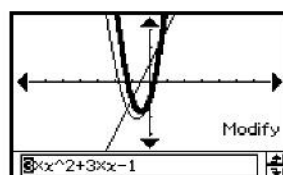
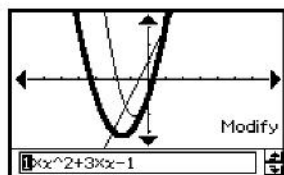
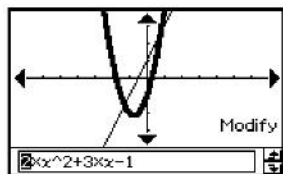
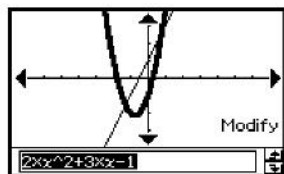
$y1 = x^3 - 3 \cdot x$

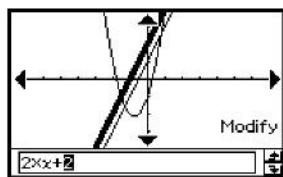
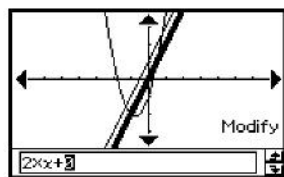
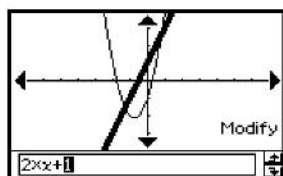
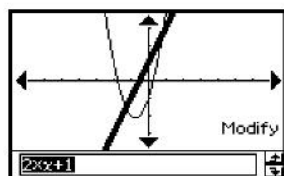
x		-2	
f'(x)	+	9	+
f''(x)	-	-12	-
f(x)	p	-2	p

x

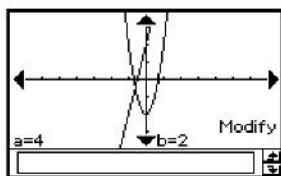
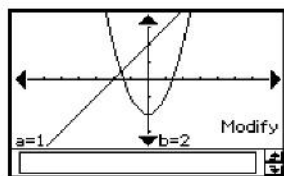
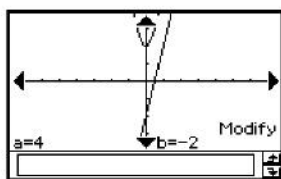
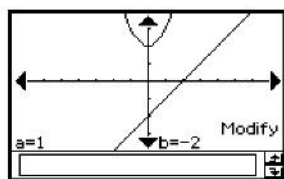




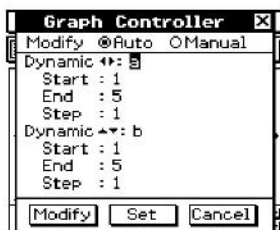




ESC



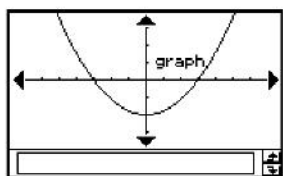
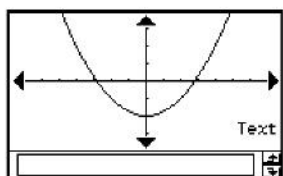
ESC



ESC



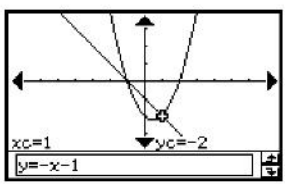
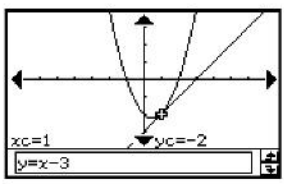


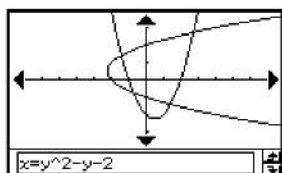




Enter Value ✕

x-value:



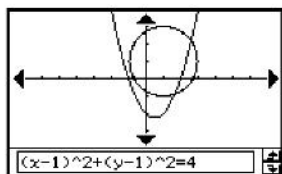


Enter Value [X]

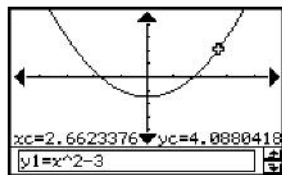
x-value:

y-value:

Radius:

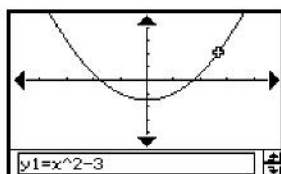
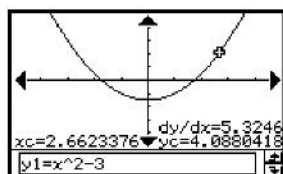


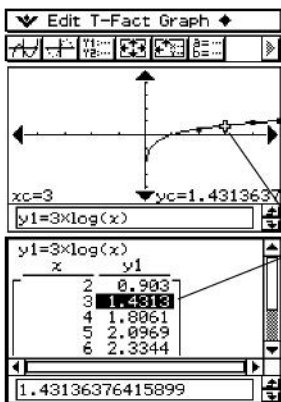


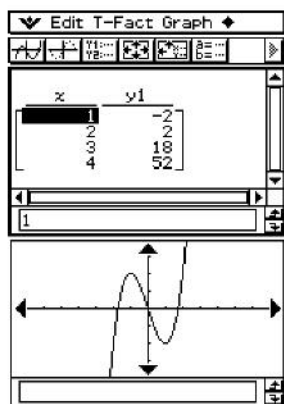


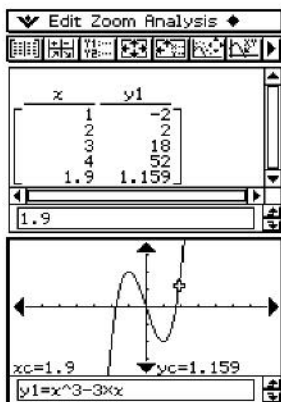
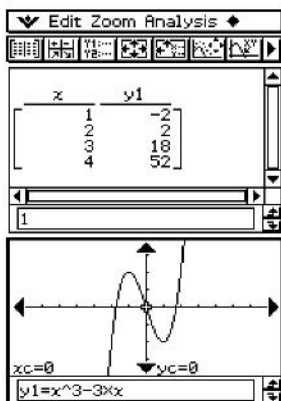
ESC

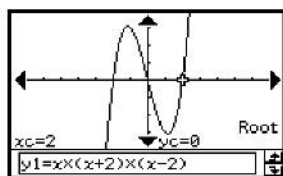
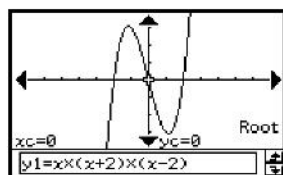
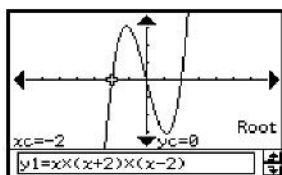


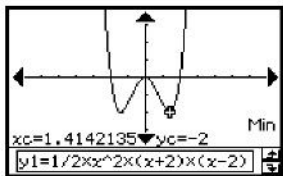
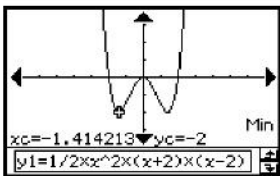


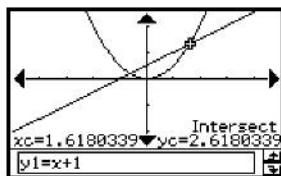
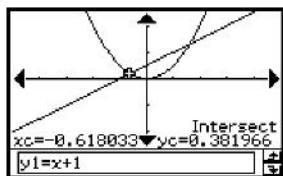


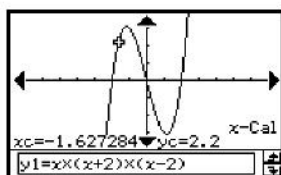
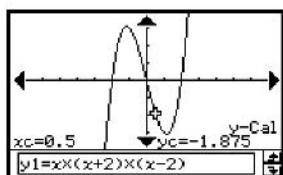








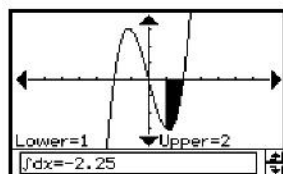


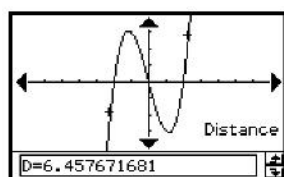


Enter Value ✕

Lower:

Upper:





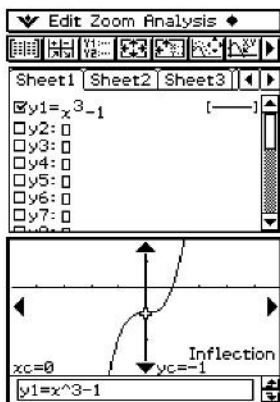
Enter Value [X]

x1:

y1:

x2:

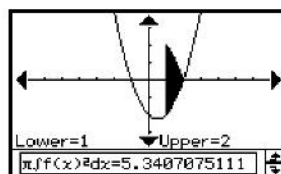
y2:



Enter Value ✕

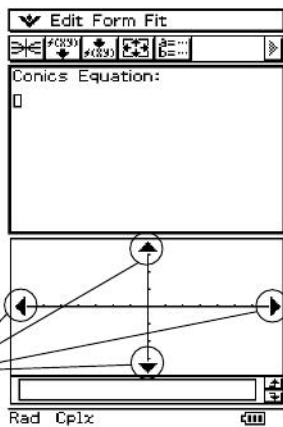
Lower:

Upper:




4










Rad Cplx 



<input type="radio"/> $X=A(V-K)^2+H$	
<input type="radio"/> $X=AV^2+BV+C$	
<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"/> $AX^2+BX+CY^2+DX+EY+F=0$	

Select Conics Form ✕

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



Edit Form Fit

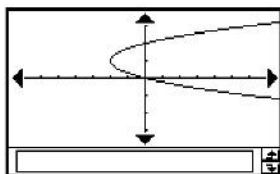
Conics Equation:

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

Edit Form Fit


Conics Equation:

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





▼ Edit Form Fit



Conics Equation:



Conics Equation:









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

Conics Equation:

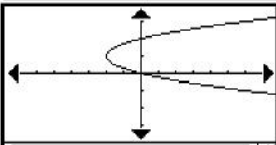
$$x = 2 \cdot y^2 - 8 \cdot y + \frac{17}{2}$$




▼ Edit Zoom Analysis ▾








f(x)        

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

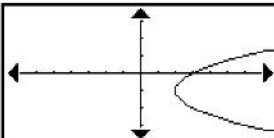






▼ Edit Zoom Analysis ◆

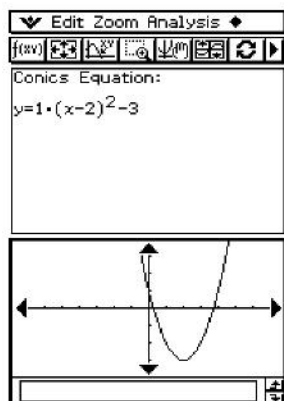
f(x)       

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










 



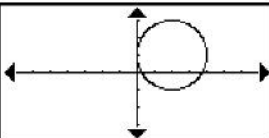






▼ Edit Zoom Analysis ▾

f(x,y)       

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 ▾

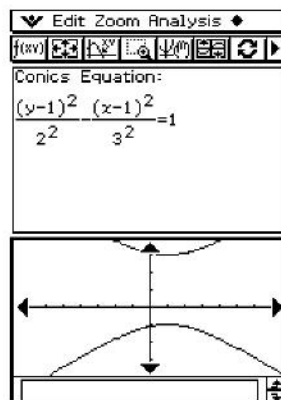
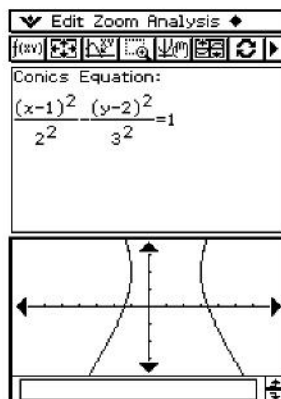
{(w)} [Home] [XY] [Info] [Help] [Back] [Forward]

Conics Equation:

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

[] []



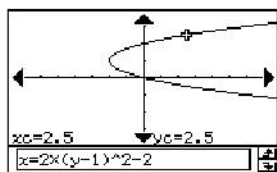




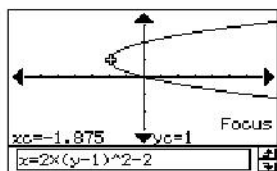
▼ Edit Zoom Analysis ◆

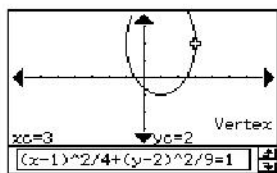
f(x,y)

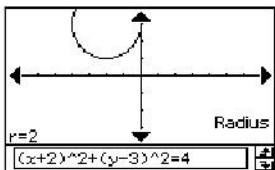
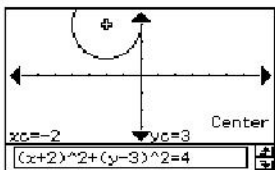
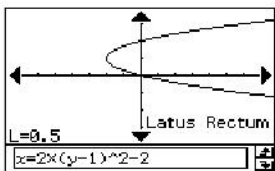
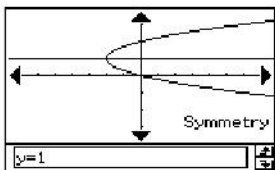
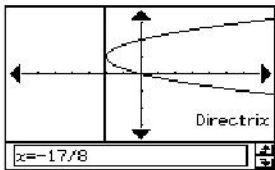
Conics Equation:
 $x^2 + 4 \cdot x \cdot y + 1 \cdot y^2 - 6 \cdot x + 6 \cdot y + 4 = 0$

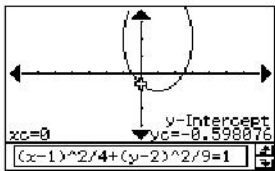
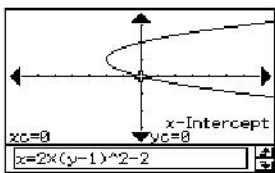
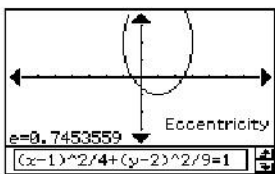
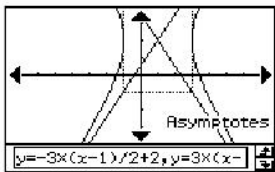


ESC





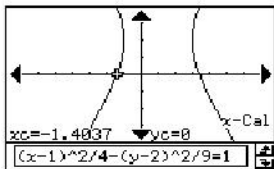






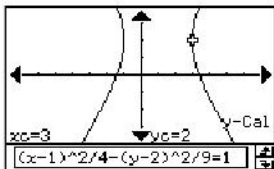
Enter Value ✕

y-value:



Enter Value ✕

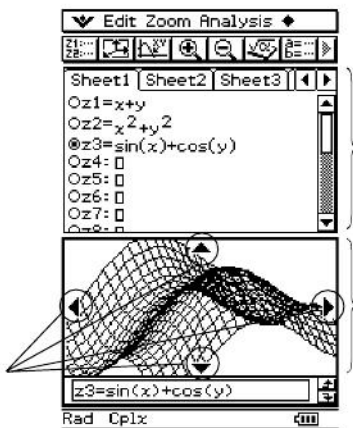
x-value:



5

5








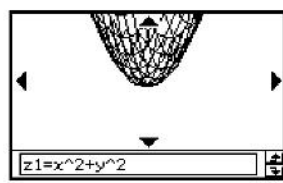
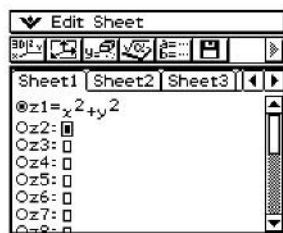


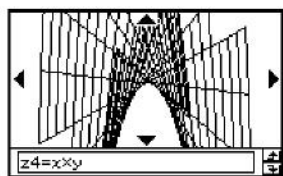
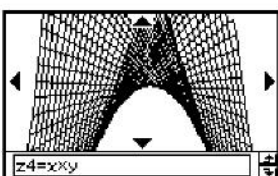
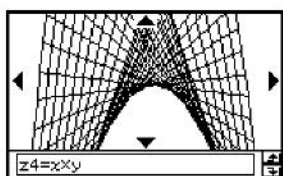
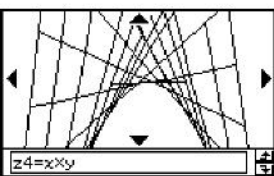
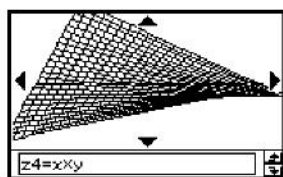


Rad Cplx 











⊙

▼ Edit Zoom Analysis ◆

z1: z2:

Sheet1 | Sheet2 | Sheet3 | ◀ ▶

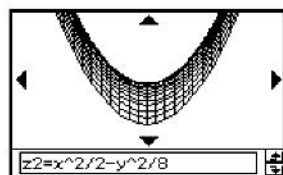
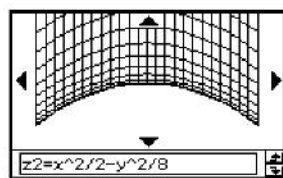
Oz1 = x.y
⊙ z2 = $\frac{x^2}{2} - \frac{y^2}{8}$
Oz3:
Oz4:
Oz5:
Oz6:

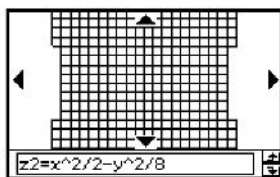
$z = x^2/2 - y^2/8$



Sheet1	Sheet2	Sheet3	◀▶
Oz1	=x+y		▲▼
Oz2	=x ² +y ²		▲▼
Oz3	=sin(x)+cos(y)		▲▼
Oz4	=		▲▼
Oz5	=		▲▼
Oz6	=		▲▼
Oz7	=		▲▼
Oz8	=		▲▼



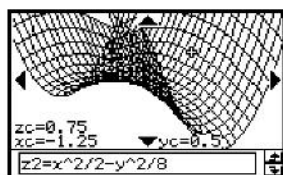






|

ESC



ESC



▼ Edit Zoom Analysis ◆

z1: z2: z3: z4: z5: z6: [Icons]

Sheet1 | Sheet2 | Sheet3 | [Navigation]

Oz1 = $x \cdot y$


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

⊙ Oz3 = $x^2 + y^2$

Oz4: □

Oz5: □

Oz6: □



zC=8
xC=2 ▼ yC=2 z-Cal

z3 = $x^2 + y^2$

ESC

6



▼ Edit Graph ◀

$a_n = \dots$ $a_n = \dots$ $a_n = \dots$ $a_n = \dots$ $a_n = \dots$ $a_n = \dots$ $a_n = \dots$ $a_n = \dots$

Recursive | Explicit

$a_{n+1} = 2 \cdot a_n$
 $a_0 = 2.5$

$b_{n+1} = 0$
 $b_0 = 0$

$c_{n+1} = 0$
 $c_0 = 0$

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

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

5

Rad Cplx















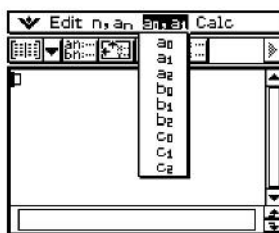
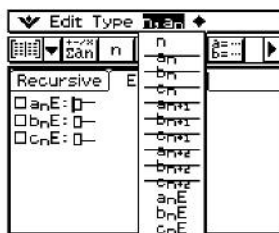




Rad Cplx









▼ 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	3
4	3	6
5	5	10

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

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

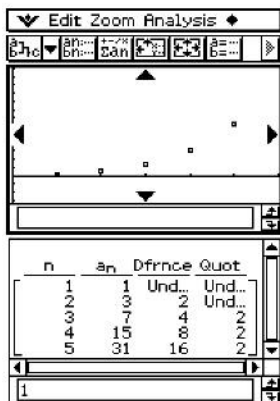
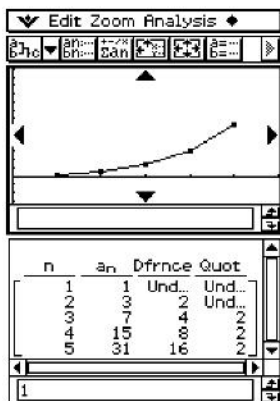
$b_{n+1} = 0$
 $b_1 = 0$

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

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

$a_{n+1} = 0$
 $a_0 = 0$

$b_{n+1} = 0$
 $b_0 = 0$

$c_{n+1} = 0$
 $c_0 = 0$

Recursive Explicit

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



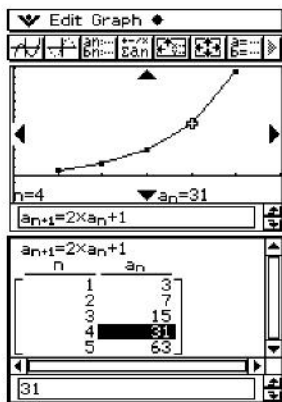
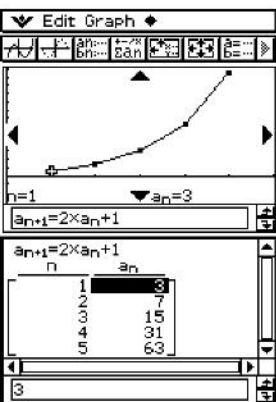
▼ Edit n, a_n, a_0, a_1 Calc

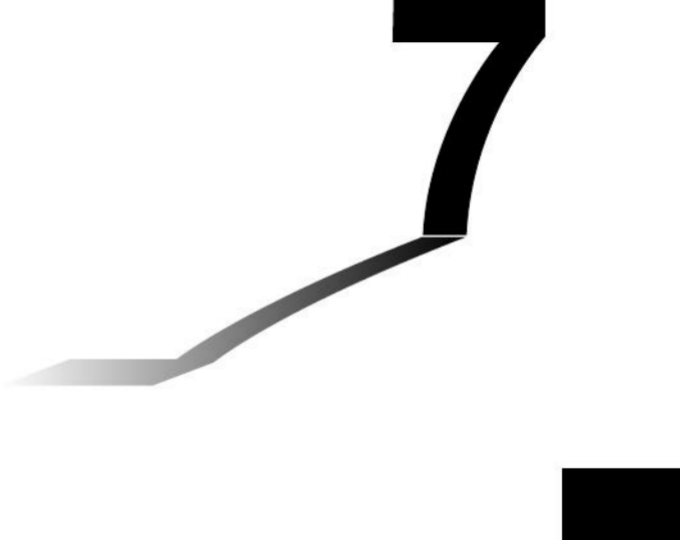
$a_n E: \square$
 $b_n E: \square$
 $c_n E: \square$

Recursive Explicit

$\Sigma \langle n^2 + 2n - 1, n, 2, 10 \rangle$ 483









▼ Edit Calc SetGraph

	list1	list2	list3
1	56	1	187
2	56	2	75
3	56	4	124
4	56	6	87
5	48	6	228

Cal ▶

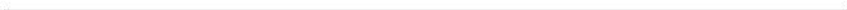
[6] = 56

Rad Auto Standard



Rad Auto Standard 













	list1	list2	list3	
1	130	33333		
2	171	"abcd"		
3	159	Undef..		
4	144	999		
5	66	>		
Cal▶				
[5] = 26				





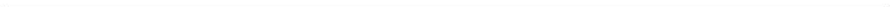
	list1	list2	list3
1	1		
2	2		
3	3		
4			
5			
Cal	"C1,2..."		
Cal=	<1,2,3>		

	list1	list2	list3
1	1		
2	2		
3	3		
4			
5			
Cal	"C1,2..."		
Cal=	<1,2,3>		

	list1	list2	list3
1	1	2	
2	2	4	
3	3	6	
4			
5			
Cal	"C1,2..."list1..."		
Cal=	list1×2		











Set StatGraphs [X]

StatGraph1 | StatGraph [left arrow]

Draw: On Off

Type: Scatter [v]

XList: list1 [v]

YList: list2 [v]

Freq: 1 [v]

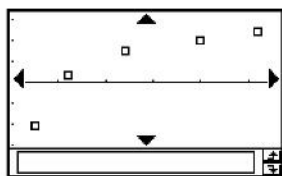
Mark: square [v]

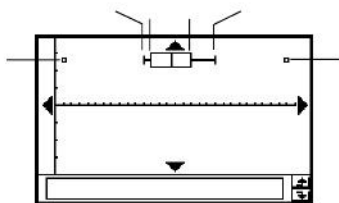
[Set] [Cancel]

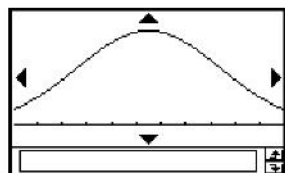




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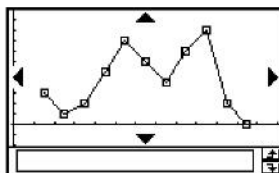




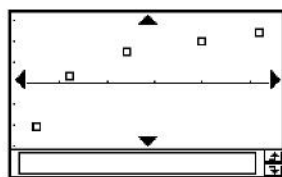
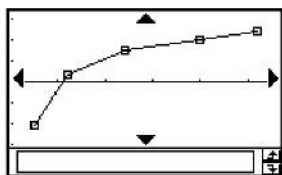
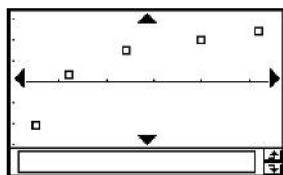
Set Interval

HStart:

HStep:







Set Calculation [X]

Logarithmic Reg

XList: list1

YList: list2

Freq: 1

Copy Formula: Off

Residual Calc: Off

OK Cancel

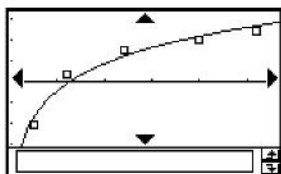
Stat Calculation [X]

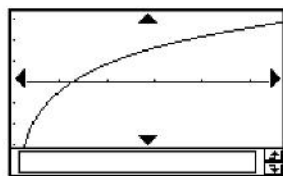
Logarithmic Reg

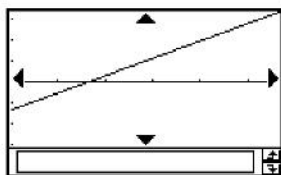
$y = a + b \cdot \ln(x)$

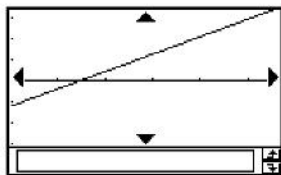
a	= -0.454684
b	= 1.8747585
r	= 0.9821627
r ²	= 0.9646436
MSe	= 0.1549553

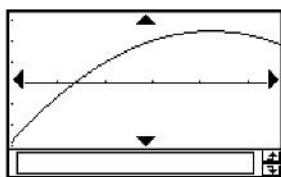
OK



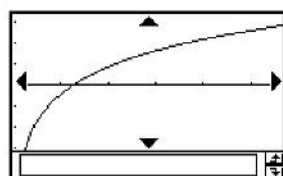


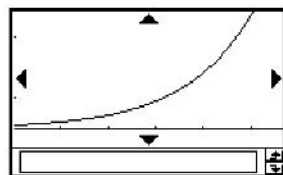


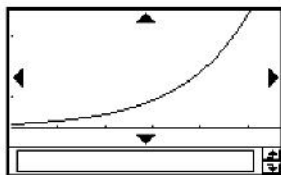


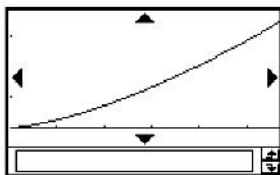


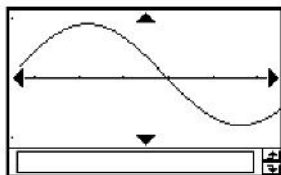


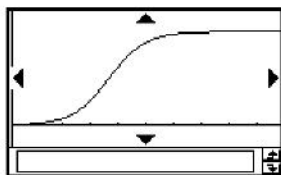




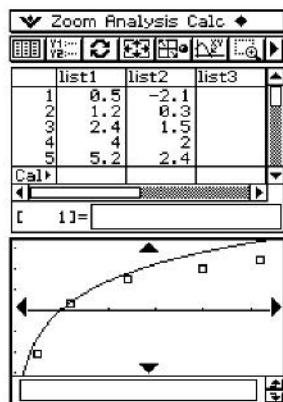






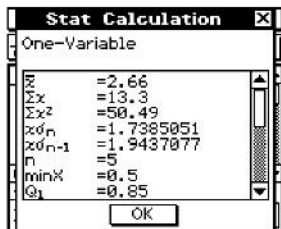


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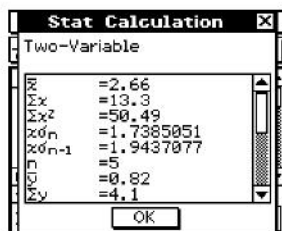






A dialog box titled "Stat Calculation" with a close button (X) in the top right corner. The title bar also includes a standard window icon on the left. The main area is labeled "One-Variable" and contains a list of statistical measures and their values. A vertical scrollbar is on the right side of the list. At the bottom center is an "OK" button.

Statistic	Value
\bar{x}	=2.66
Σx	=13.3
Σx^2	=50.49
x_{0n}	=1.7385051
x_{0n-1}	=1.9437077
n	=5
minX	=0.5
Q_1	=0.85



A screenshot of a 'Stat Calculation' dialog box. The title bar reads 'Stat Calculation' with a close button. The main area is titled 'Two-Variable' and contains a list of statistical results. At the bottom, there is an 'OK' button.

Label	Value
\bar{x}	=2.66
Σx	=13.3
Σx^2	=50.49
σ_n	=1.7385051
σ_{n-1}	=1.9437077
n	=5
\bar{y}	=0.82
Σy	=4.1







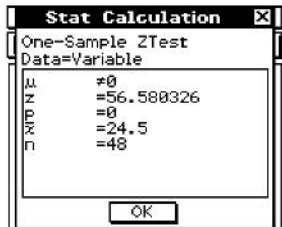
▼ Edit Calc SetGraph

	list1	list2	>	-
1	0.5	2.1		
2	1.2	0.3		
3	2.4	1.5		
4	4	2		
5	5.2	1		
Cal▶				
list=	residual			





ztestone	N
OneSampleZTest "z", 0, 3, 24	
.5, 48	
DispStat	

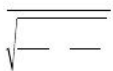


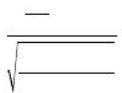


hyp N
{1,1,1,1,2,2,2,2}→list1
{1,1,2,2,1,1,2,2}→list2
{113,116,139,132,133,131,
126,122}→list3
TwoWayANOVA list1,list2,lis
t3
DispStat
|

Stat Calculation	
Two-Way ANOVA	
A df	1
A MS	=18
A SS	=18
A F	=1.8461538
A p	=0.2458019
B df	=1
B MS	=84.5
B SS	=84.5
OK	









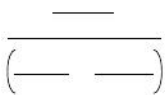
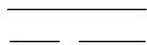
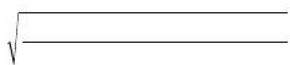
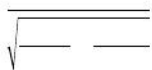
$$\sqrt{\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}}$$





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$\sqrt{\quad}$





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



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$$\left(\frac{-}{-}\right)\sqrt{-}$$

$$\left(\frac{-}{-}\right)\sqrt{-}$$





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

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

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











$\sqrt{\quad}$



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



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

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

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



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



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



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



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



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



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





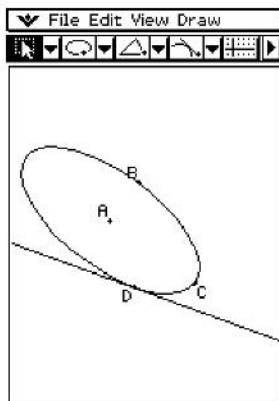
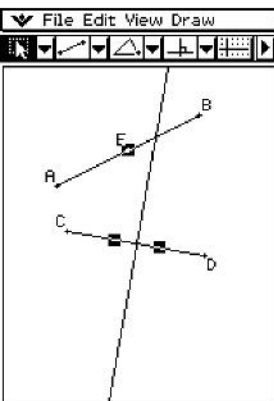
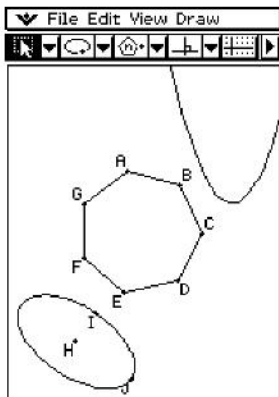
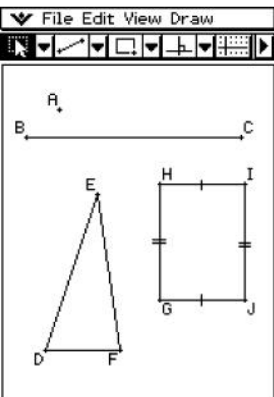


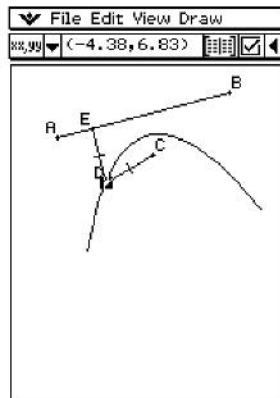
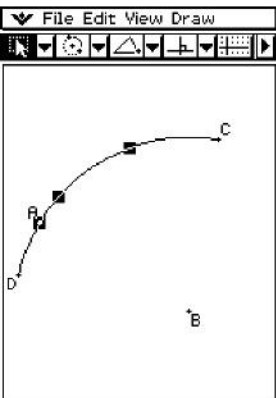
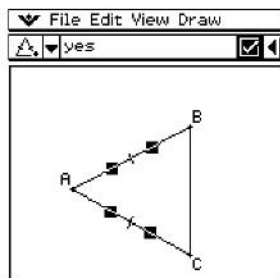
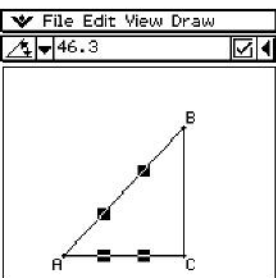




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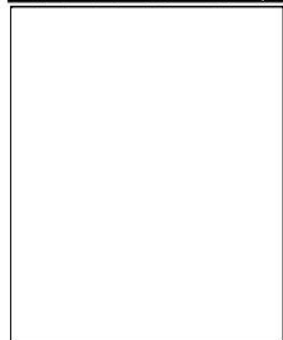


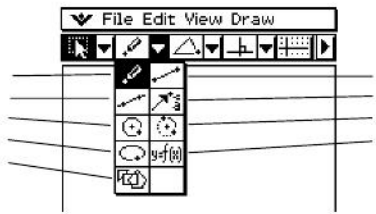
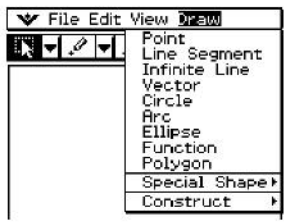


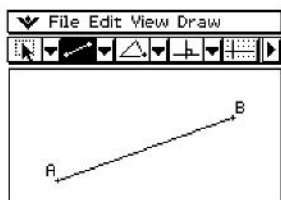
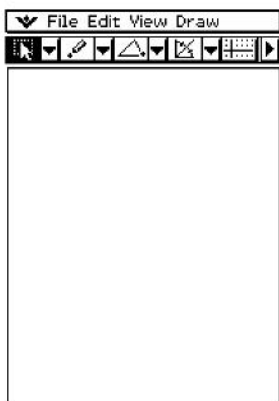
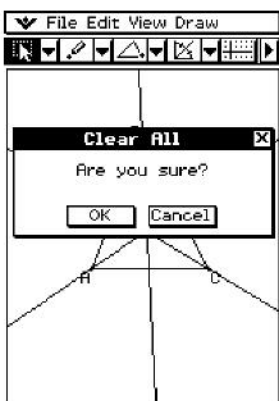
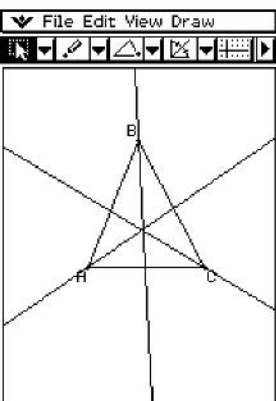


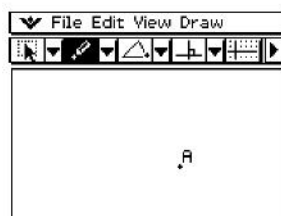
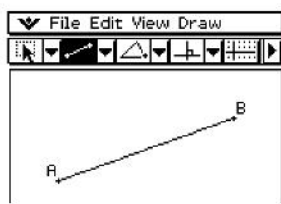
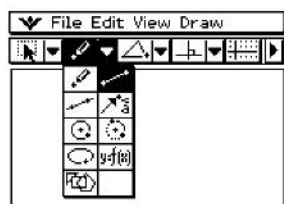


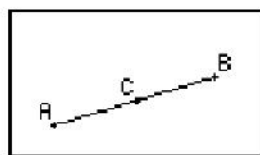
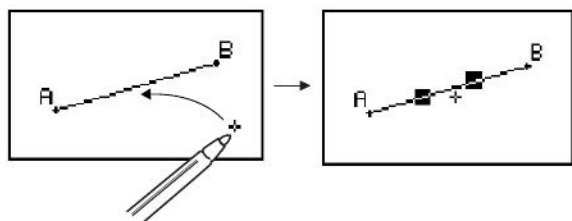
File Edit View Draw

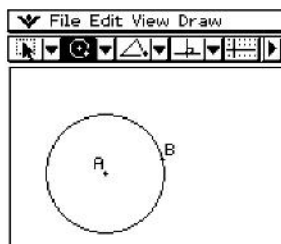
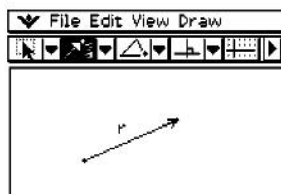
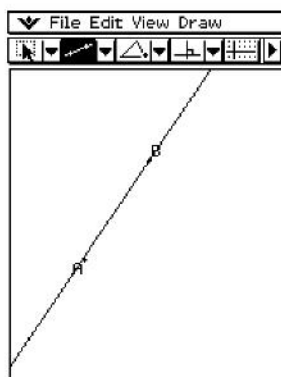


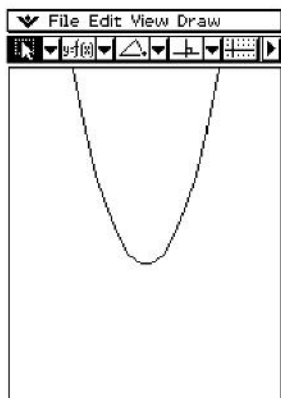
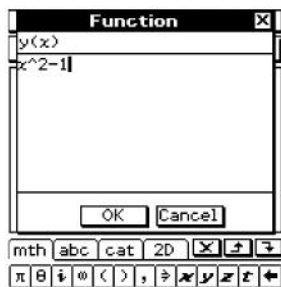
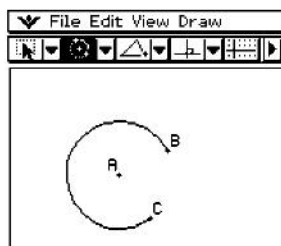


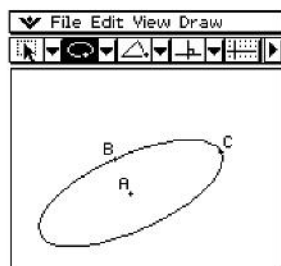
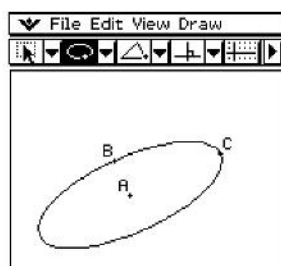


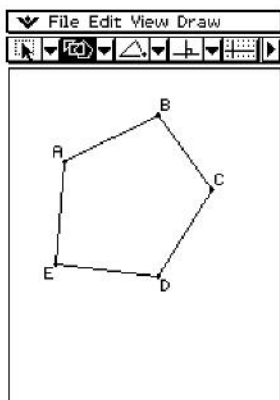
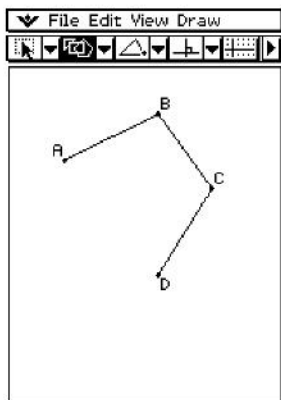


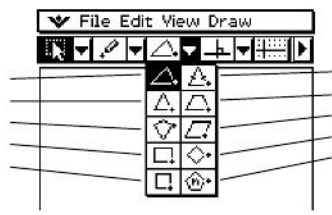
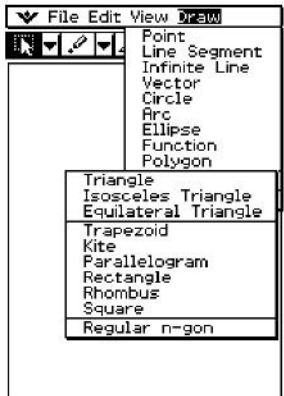


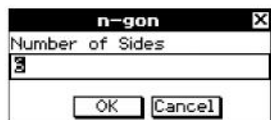
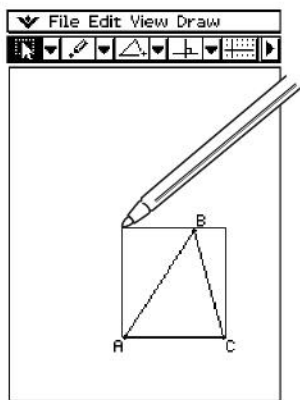
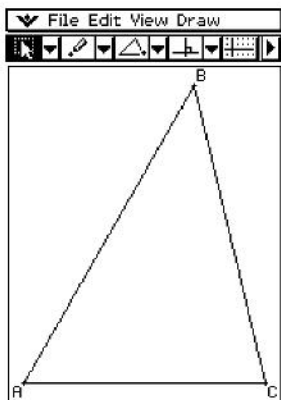


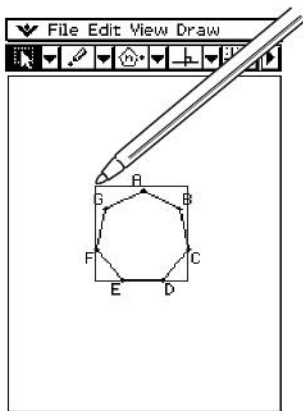
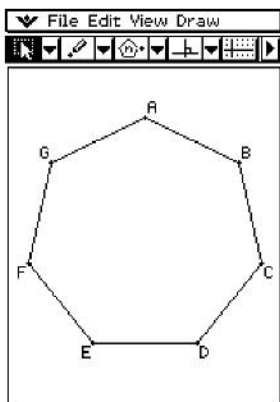


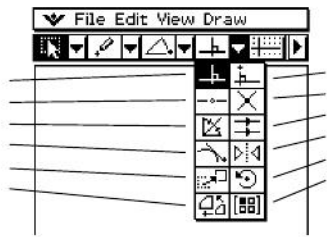
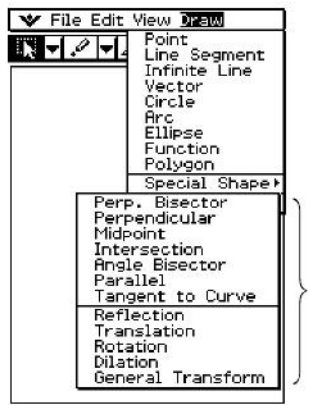


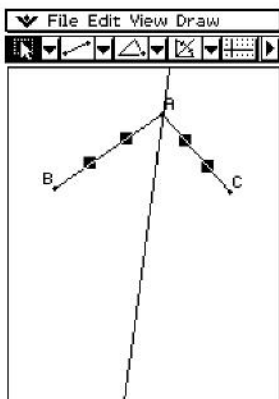
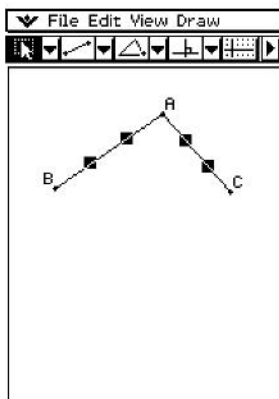
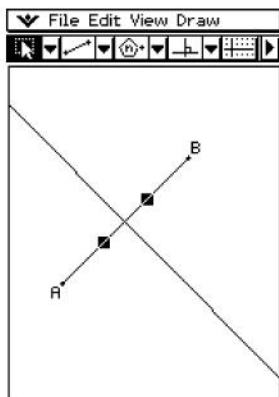
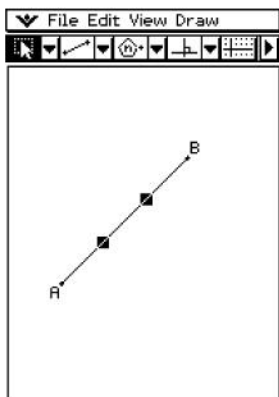


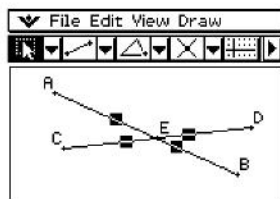
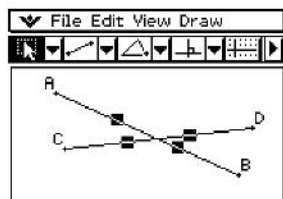
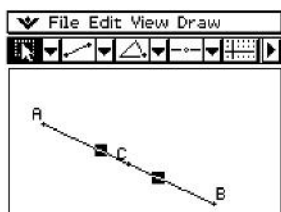


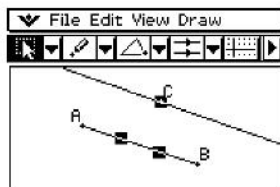
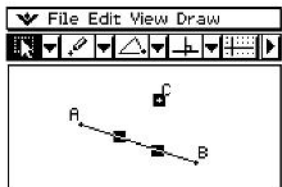
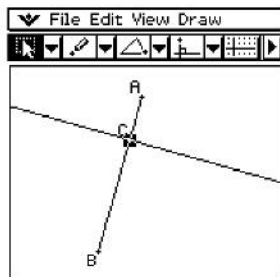
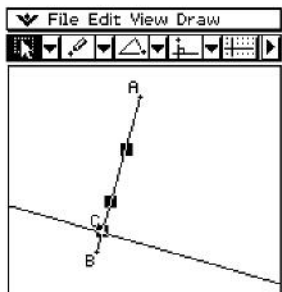


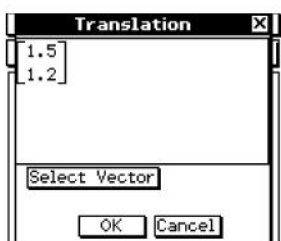
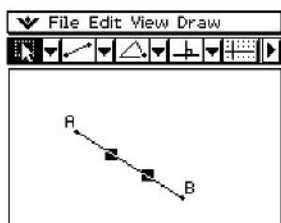
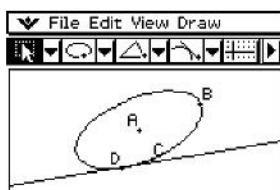
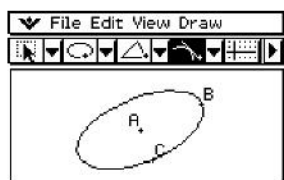


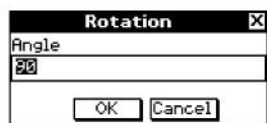
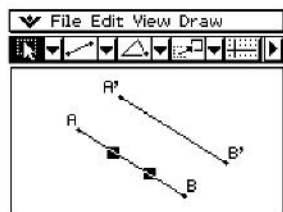


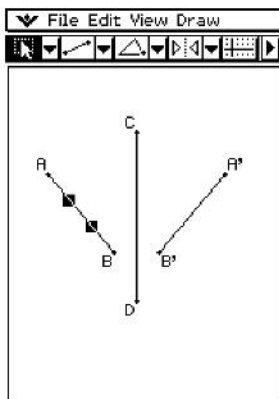
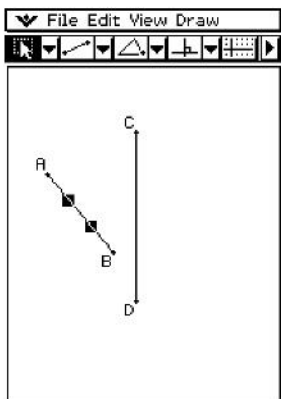
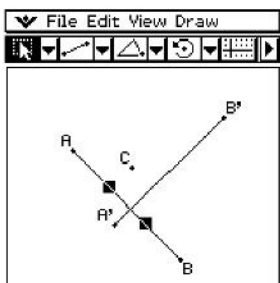














Dilation [X]

Scale

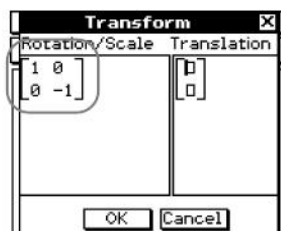
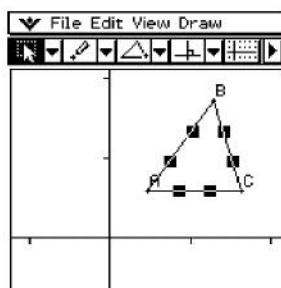
2.5

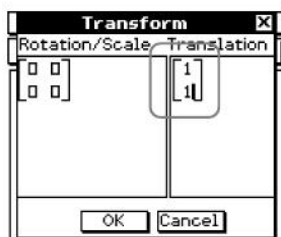
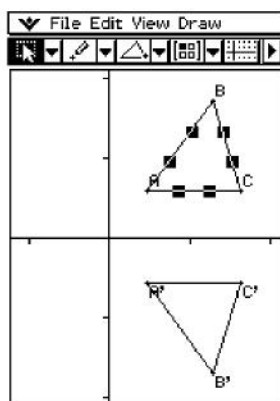
OK Cancel

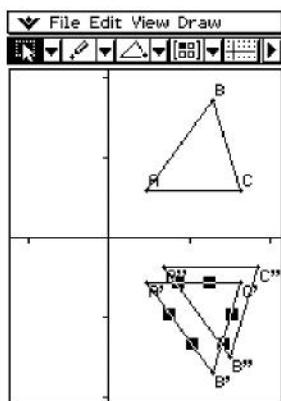
File Edit View Draw

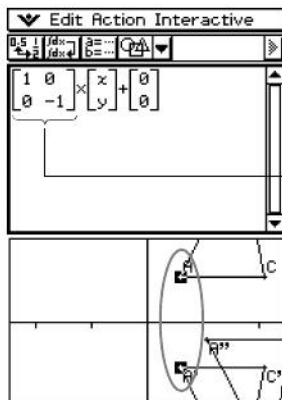
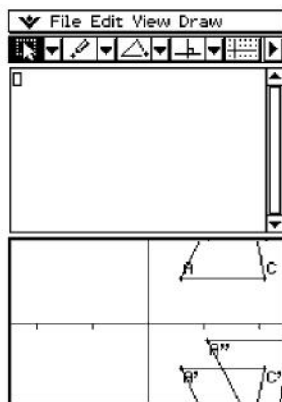
A diagram illustrating a dilation. A horizontal line segment AB is shown above a shorter horizontal line segment $A'B'$. A point C is located below the segments, serving as the center of dilation. Two small squares on the line segment AB indicate the corresponding points on the image $A'B'$.









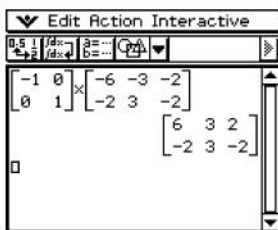
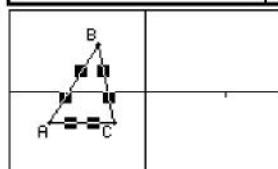
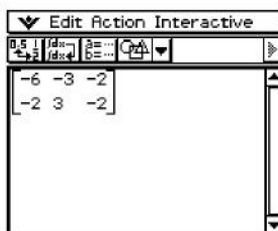
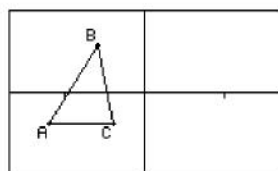


▼ Edit Action Interactive

$a = \dots$ $b = \dots$ $\frac{dx}{dt} = \dots$ $\frac{dy}{dt} = \dots$

1	0	x	+	1
0	1	y	+	1





Edit Action Interactive

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

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

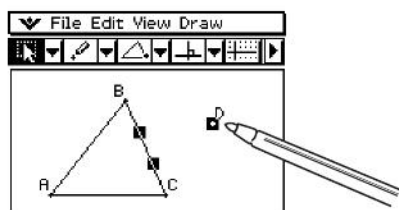
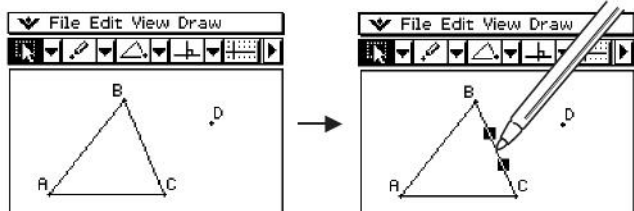


File Edit View Draw

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

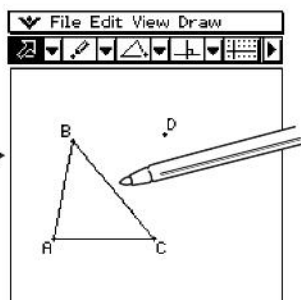
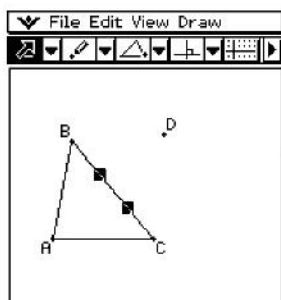
$\begin{bmatrix} 6 & 3 & 2 \\ -2 & 3 & -2 \end{bmatrix}$

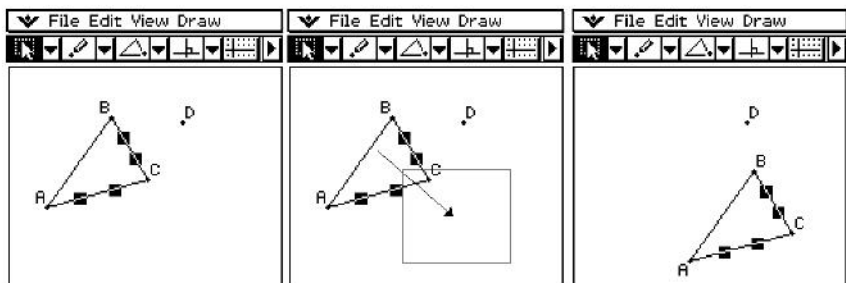


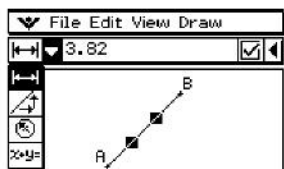
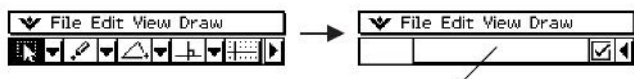




2



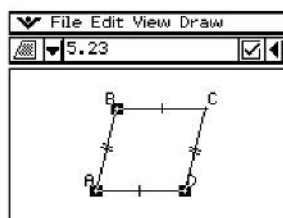


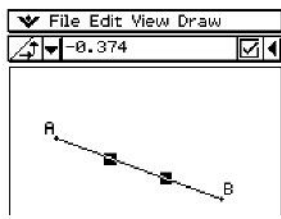
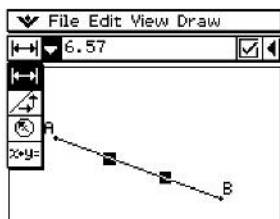
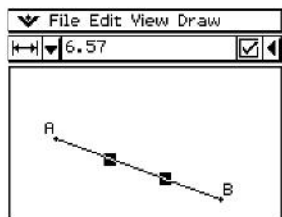
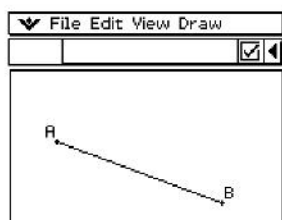
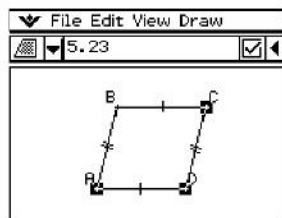


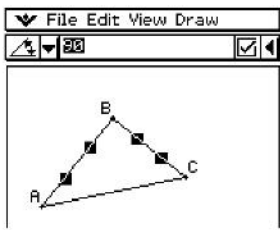
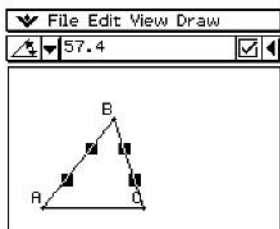


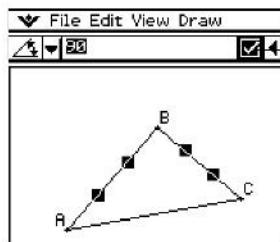
				
				
				
				













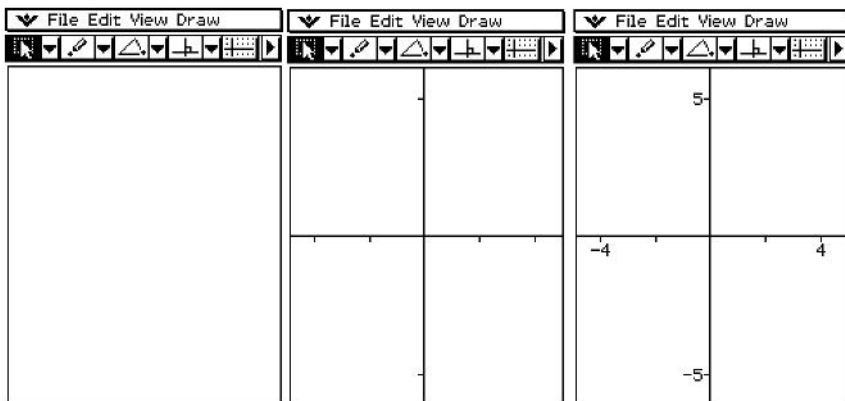
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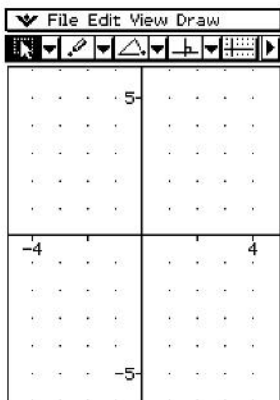
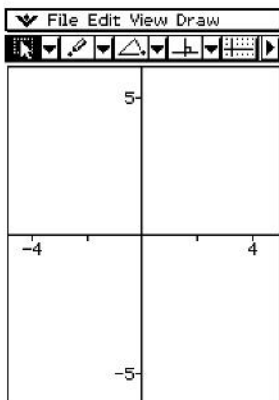
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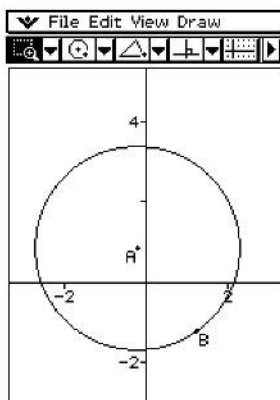
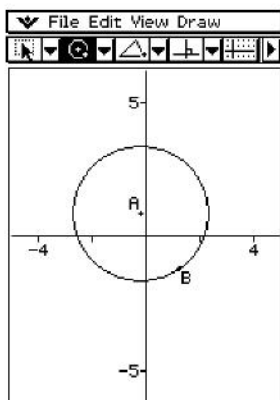
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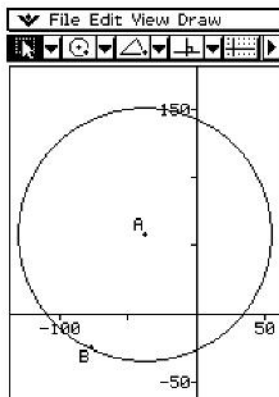
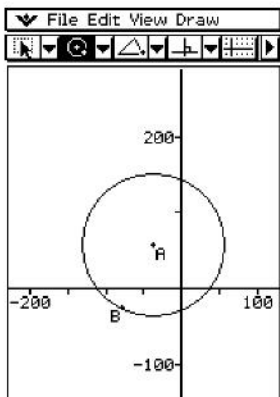
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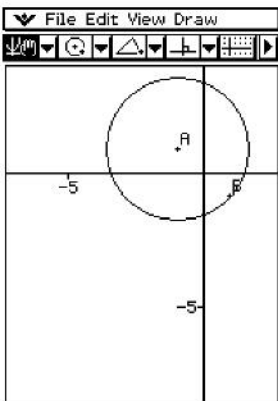
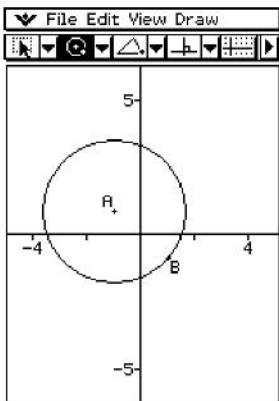


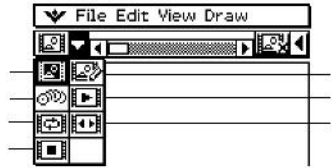
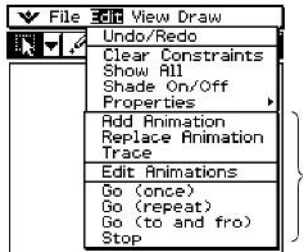


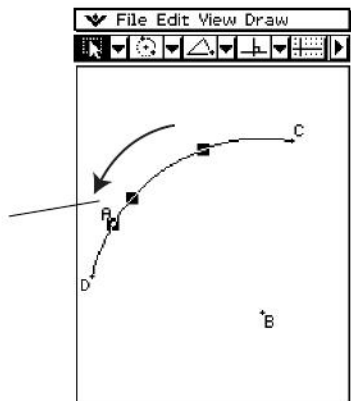
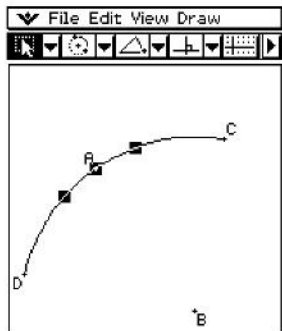
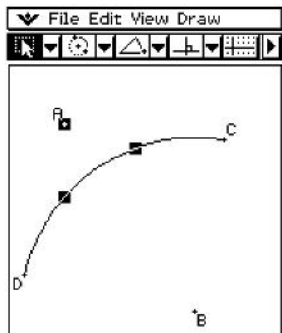


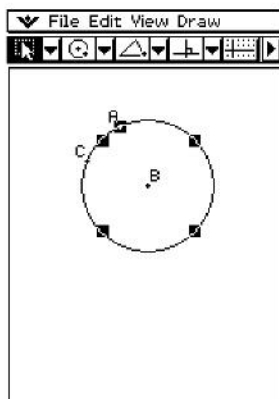
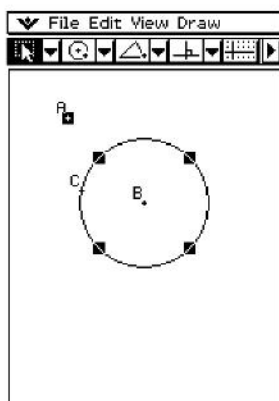


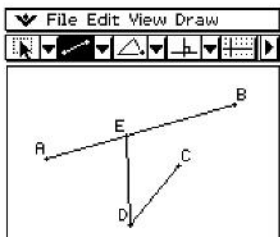
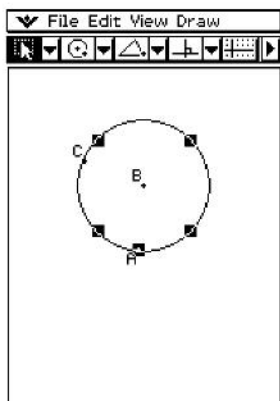


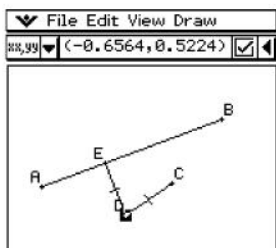
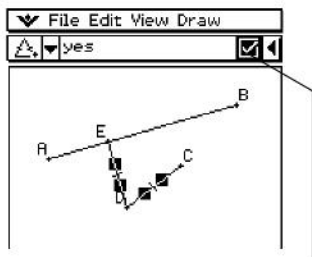
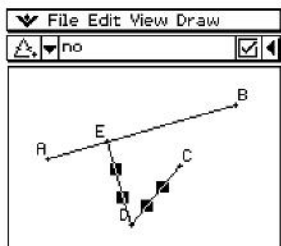
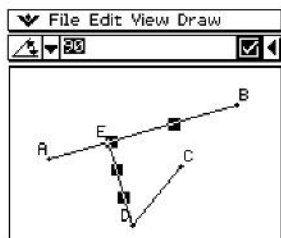


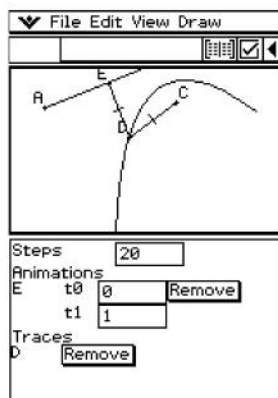
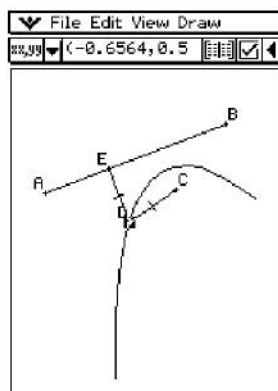


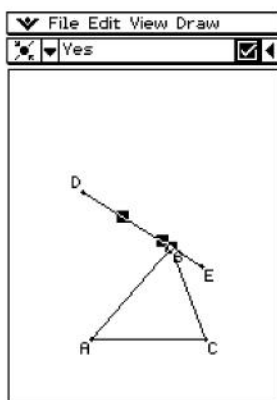
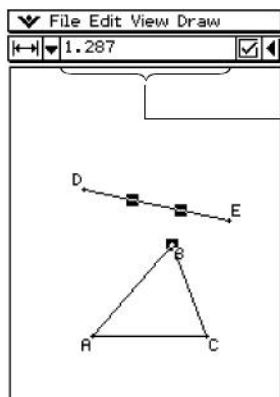


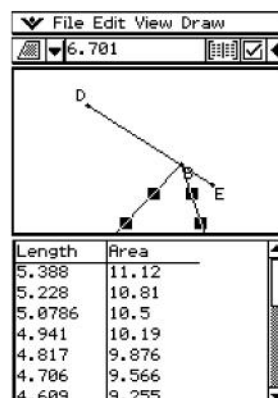
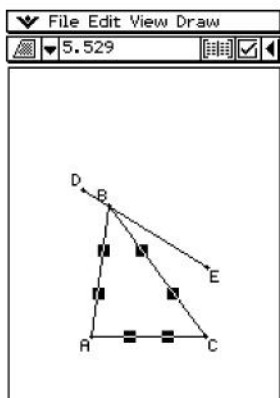
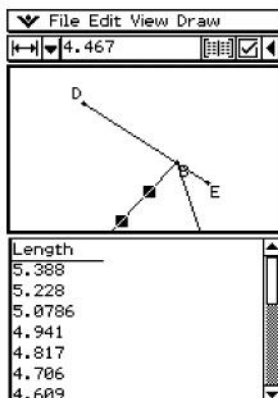
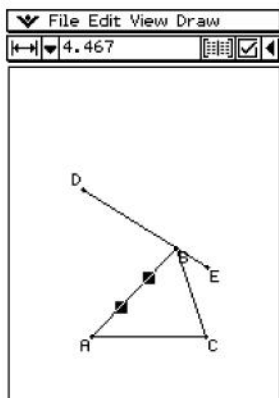


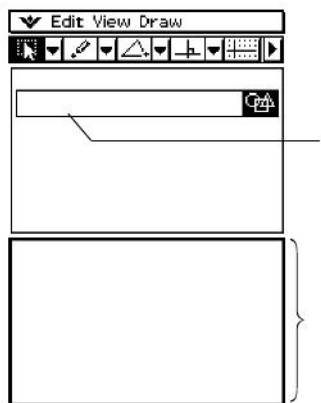


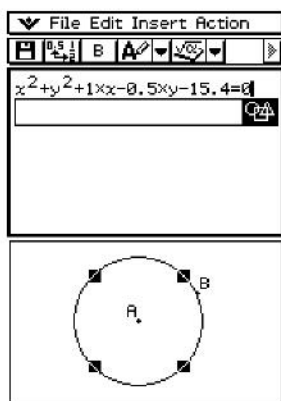
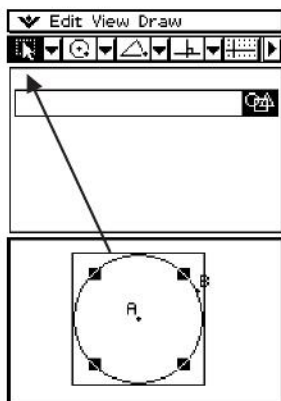


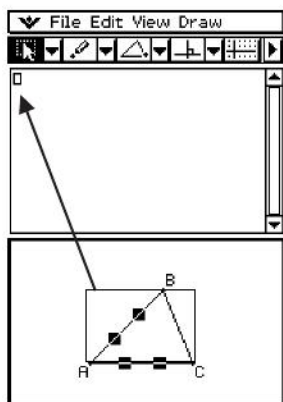
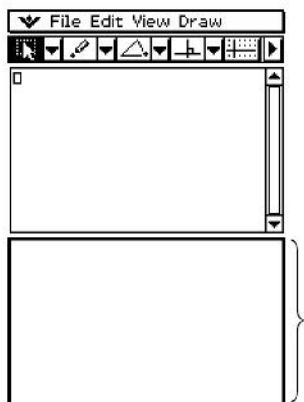












Edit Action Interactive

$y = 1.017x + 1.036$
 $y = -2.55$ x, y
 $\left\{ x = -\frac{3586}{1017}, y = -\frac{51}{20} \right\}$

Alg Decimal Cplx Rad $\langle \equiv \rangle$

$(-3.53, -2.55)$ $\langle \equiv \rangle$





8

File Edit Insert Action

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

Alg Standard Cplx Rad



File Edit Insert Action

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

Alg Standard Cplx Rad







Files [X]

File Search

[Home] [Search]

main
 aaa

Search [X]

Name: []

[Search] [Next] [Cancel]

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

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q w e r t y u i o p [Right]

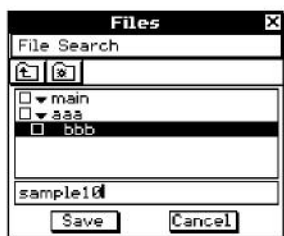
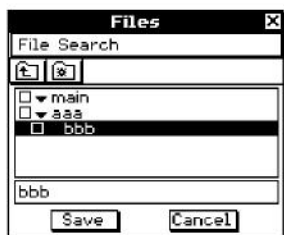
[Left] a s d f g h j k l ; [Right]

[Up] z x c v b n m , . / [Right]

αβγ MATH SPACE SMBL EXE

Dir:main [F11]



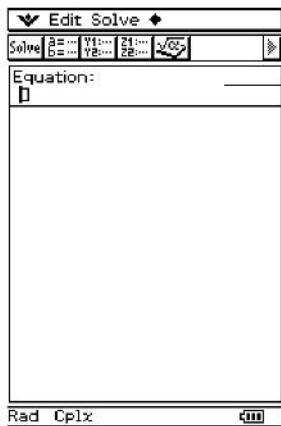






9





Edit Solve

Solve	a=... b=...	y1=... y2=...	z1=... z2=...	√/C	▶
-------	----------------	------------------	------------------	-----	---

Equation:

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

Sheet1	Sheet2	Sheet3	◀ ▶
--------	--------	--------	-----

<input checked="" type="checkbox"/> y1=	$x^3 + 4 \cdot x^2 + x - 2$	[—]	▲
<input type="checkbox"/> y2=	0		
<input type="checkbox"/> y3=	0		
<input type="checkbox"/> y4=	0		
<input type="checkbox"/> y5=	0		
<input type="checkbox"/> y6=	0		
<input type="checkbox"/> y7=	0		
<input type="checkbox"/> y8=	0		▼



©

▼ Edit Solve ↕

Solve $\frac{1}{2}gt^2 = h$ $\frac{1}{2}gt^2 = h$ $\frac{1}{2}gt^2 = h$ $\frac{1}{2}gt^2 = h$ $\frac{1}{2}gt^2 = h$

Equation:
 $h = v \cdot t - \frac{1}{2} \cdot g \cdot t^2$

Oh= 14
 v= 0
 Ot= 2
 Og= 9.8
 Lower= -9e+999
 Upper= 9e+999

mth abc cat 2D \times \uparrow \downarrow

a	b	c	d	e	()	,	÷	←
f	g	h	i	j	7	8	9	^	=
k	l	m	n	o	4	5	6	×	+
p	q	r	s	t	1	2	3	+	-
$\frac{1}{x}$	u	v	w		0	.	E	ans	
TRIG	xy	z	OPTN		↵			EXE	





10



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

$$x(t) = t \times 40 \times \cos(45)$$

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

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

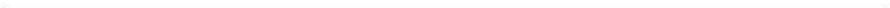
$$x(t) = t \times 40 \times \cos(45)$$

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

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]

- main
 - 123
 - 456
- test

[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 [Right]

[Shift] a s d f g h j k l ; \ [Right]

[Up] z x c v b n m , . / [Right]

αβγ MATH SPACE SMBL EXE

Dir:main [Home]

Files [X]

File Search

[Home] [Back]

- main
 - 123
 - 456
- test

[Open] [Cancel]

Dir:main [Home]

Files [X]

File Search

[Home] [Back]

- main
 - 123
 - 456
- test

[Open] [Save] [Cancel]

Dir:main [Home]





File Edit Insert Action

$\frac{d}{dx}$ $\frac{d}{dy}$ B $\frac{d}{dt}$ $\frac{d}{dz}$ $\frac{d}{ds}$ $\frac{d}{dv}$ $\frac{d}{d\theta}$

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 $\frac{d}{dx}$

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

Alg Standard Cplx Rad $\frac{d}{dx}$



File Edit Insert Action

$\frac{d}{dx}$ $\frac{d}{dy}$ B $\frac{d}{dt}$ $\frac{d}{dz}$ $\frac{d}{ds}$ $\frac{d}{dv}$ $\frac{d}{d\theta}$

|



File

File

File Edit Insert Action

Text input mode

Text

Text

251/3

$\frac{251}{3}$

$2x^2+3x^2+x+2x+1$

File Edit Insert Action

Text input mode

Text

Text

251/3

$\frac{251}{3}$

$2x^2+3x^2+x+2x+1$



B

B

File Edit Insert Action

Plain text

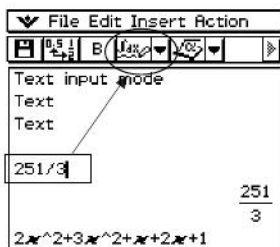
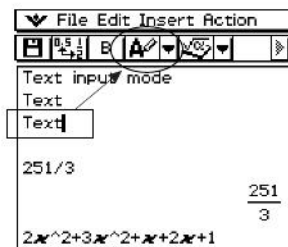
Bold text

B
B

File Edit Insert Action

Plain text

Bold text





$$\begin{array}{r} 251/3 \\ \hline 2x^2+3x^2+x+2x+1 \\ \hline 5 \cdot x^2+3 \cdot x+1 \end{array}$$

File Edit Insert Action	
5 \rightarrow a	5
10 \rightarrow b	10
a+b	15
a-b	-5
a/b	$\frac{1}{2}$
\square	

File Edit Insert Action	
5 \rightarrow a	5
20 \rightarrow b	20
a+b	25
a-b	-15
a/b	$\frac{1}{4}$
\square	

Rlg Standard Cplx Rad

Rlg Standard Cplx Rad

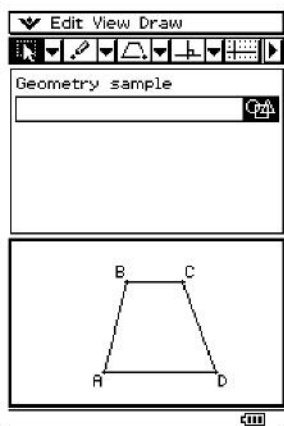
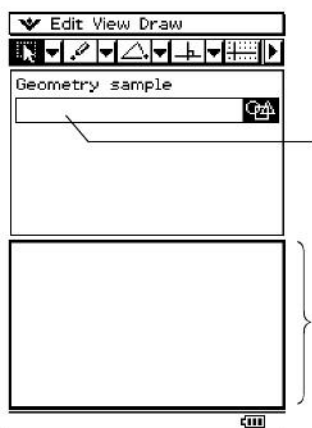




Example Graph







▼ File Edit Insert Action




















Geometry sample


Trapezoid 

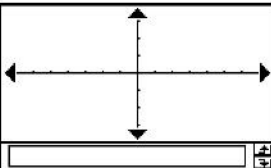
▼ Edit Zoom Analysis ◀











Geometry sample

Trapezoid 

Graph example 



Rad Cplx 



▼ Edit Type GMem ◆

Sheet1 | Sheet2 | Sheet3

y1 = $\sin(x)+x$ [—] ▲

y2 = $x-2$ [—] ▲

y3: 0

y4: 0

y5: 0

y6: 0

y7: 0

y8: 0

Rad Cplx



▼ Edit Zoom Analysis ◆

Sheet1 | Sheet2 | Sheet3

y1 = $\sin(x)+x$ [—] ▲

y2 = $x-2$ [—] ▲

y3: 0

y4: 0

y5: 0

y6: 0

y7: 0

y8: 0

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

🏠 📄 📁 📧

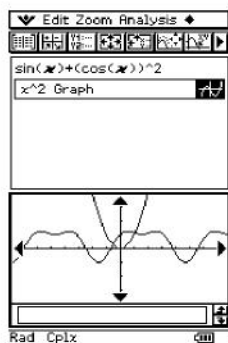
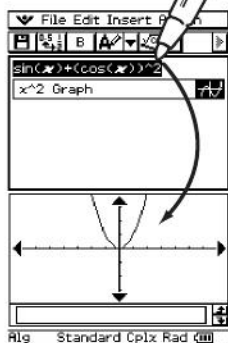
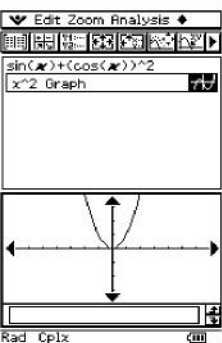
Exterior \angle of a \triangle 📐

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

Math notes 📄

75.01+40.4







File Edit Insert Action

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

Alg Standard Cplx Rad $\left[\frac{\square}{\square} \right]$

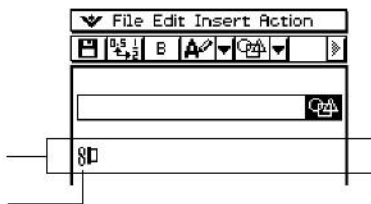


File Edit Insert Action

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

Alg Standard Cplx Rad $\left[\frac{\square}{\square} \right]$





File Edit Insert Action

$y=1.91 \cdot x+0.983$

A B C

R19 Standard Cplx Rad (m)



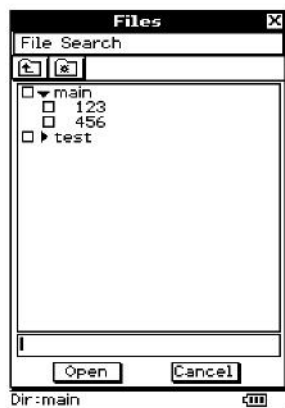
File Edit Insert Action

$y=x+2$

A B C

R19 Standard Cplx Rad (m)





File Edit Insert Action

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

$$x(t) = t \times v_0 \times \cos(\theta)$$

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

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

Path of a ball

$$x(t) = t \times 40 \times \cos(45)$$

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

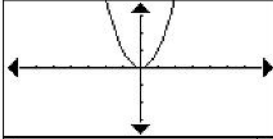
Alg Standard Cplx Deg

File Edit Insert Action

Example containing two graphs

Example1

Example2



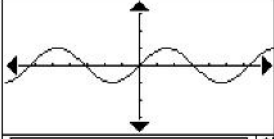
Alg Standard Cplx Rad

File Edit Insert Action

Example containing two graphs

Example1

Example2



Alg Standard Cplx Rad





11



▼ Edit Zoom Analysis

Sheet1 | Sheet2 | Sheet3

$y_1 = \frac{1}{3} \cdot x^2 - 2$

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

Page 4/12



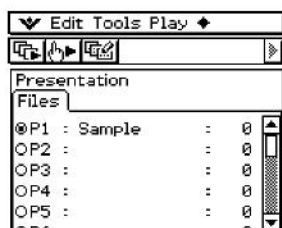
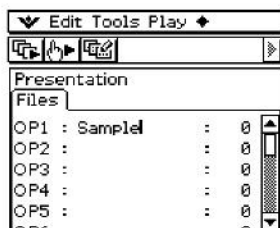
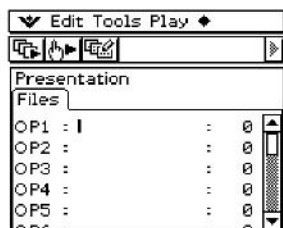


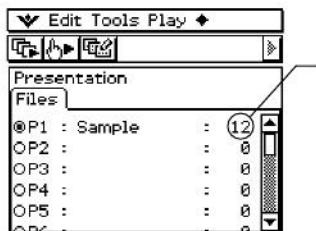


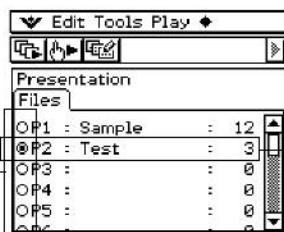












▼ Edit Tools Play ◆

⏪ ⏩ ⏴ ⏵

Presentation

Files

@P1 : Sample	:	12
OP2 :	:	0
OP3 :	:	0
OP4 :	:	0
OP5 :	:	0
OP6 :	:	0

Variable Manager X

Edit View All Search

Current: main ▼

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





▼ Edit Tools Play ◀

⏪ ⏩ ⏴ ⏵

Presentation

Files

<input checked="" type="radio"/> P1	: Sample	: 12
<input type="radio"/> P2	:	: 0
<input type="radio"/> P3	:	: 0
<input type="radio"/> P4	:	: 0
<input type="radio"/> P5	:	: 0
<input type="radio"/> P6	:	: 0

▼ Edit Zoom Analysis ◀

⏪ ⏩ ⏴ ⏵

Sheet1 | Sheet2 | Sheet3

$y_1 = \frac{1}{3} \cdot x^2 - 2$ [—]

$y_2 = 0$

$y_3 = 0$

$y_4 = 0$

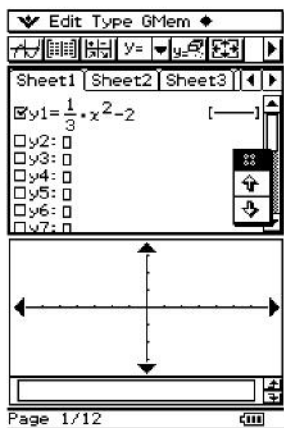
$y_5 = 0$

$y_6 = 0$

$y_7 = 0$

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

Page 2/12



	↓
	↑

▼ Edit Zoom Analysis ◀

Sheet1 Sheet2 Sheet3

$y1 = \frac{1}{3} \cdot x^2 - 2$ [—]

y2: 0

y3: 0

y4: 0

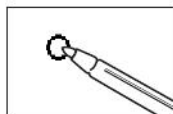
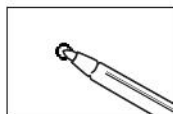
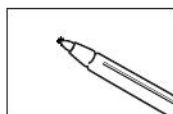
y5: 0

y6: 0

y7: 0

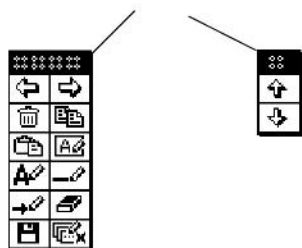
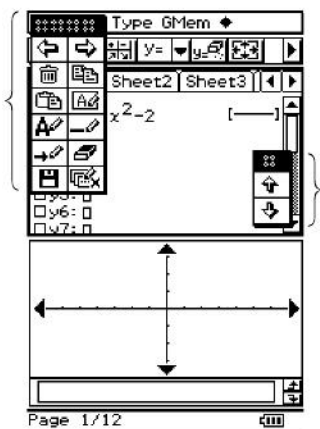
$(x+4)^2 + (y+2)^2 = 9$

Page 2/12

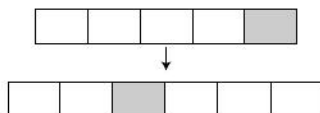






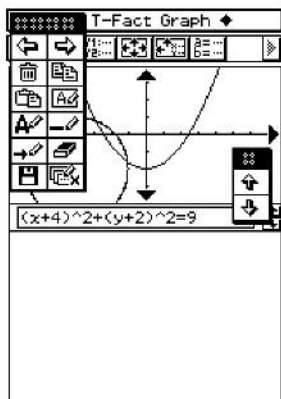






A screenshot of a graphing calculator interface. The title bar reads "Zoom Analysis". The main window displays a coordinate plane with a circle centered at (-4, -2) and a parabola opening upwards with its vertex at (-4, -2). The circle is highlighted with a dashed border. A "full-screen" label with a pointer is located near the bottom of the graph. The bottom status bar contains the equation $(x+4)^2+(y+2)^2=9$. The interface includes a toolbar with various icons for navigation and editing, and a vertical toolbar on the left with icons for zooming and viewing options.





Zoom Analysis

Sheet2 Sheet3

$x^2 - 2$

y6:

y7:

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

Page 2/12



Zoom Analysis

Sheet2 Sheet3

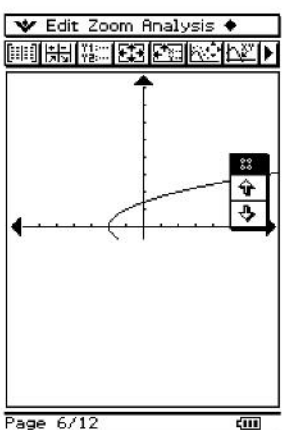
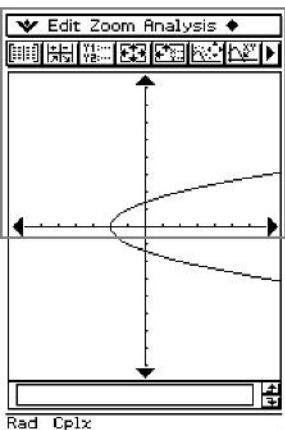
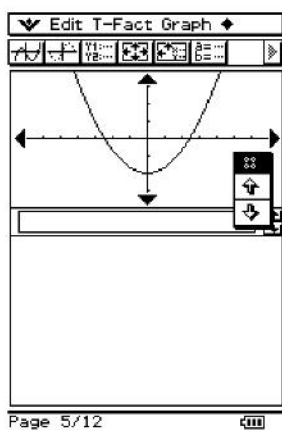
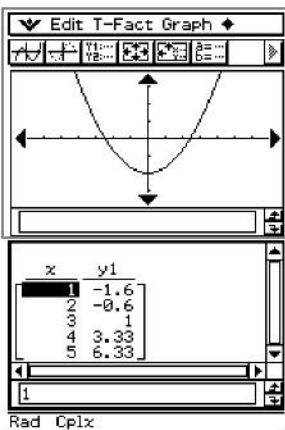
$x^2 - 2$

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

Page 2/12

















12





I


▼ Edit Run

Folder: ▼

Name: ▼

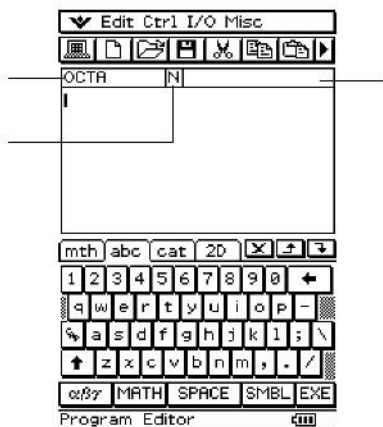
Parameter:

Program Loader 











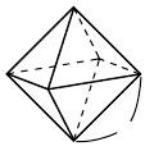












○

New File ✕

Type: ▾

Folder: ▾

Name:

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











CAUTION	T
Be sure to check angle unit setting!	

ans	N
CAUTION(> Input A Print approx(sin(A))	



▼ Edit Run

Folder: main

Name: OCTA

Parameter:

A?

OK

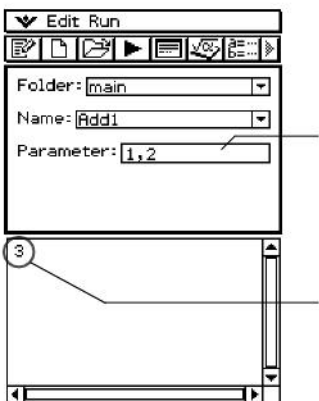
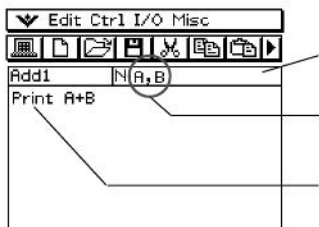
169.7409791
161.6917506
346.4101615
471.4045208
779.4228634
1590.990258

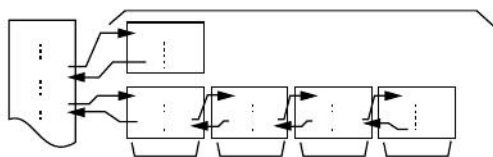




OCTA	IN
SetDecimal	
Input A	
Print $\text{approx}(2 \times f(3) \times A^2)$	
Pause	
Print $\text{approx}(f(2)/3 \times A^3)$	

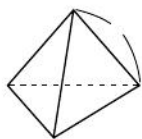












=






```
OCTA | N|
SetDecimal
Input A
Print approx(2×f(3)×A^2)
Pause
Print approx(f(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	z
$x \times (x+1) \times (x-2)$		

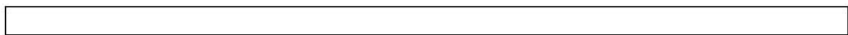




f4(-10)	-1080
f4(10)	880
□	









Input

How many samples?



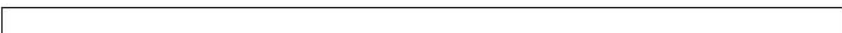
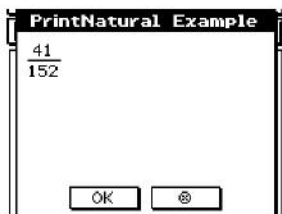


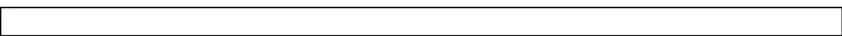
$\sqrt{\quad}$

$\sqrt{\quad}$

















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







[]















...

xxxx

.....

...

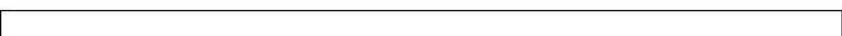




-









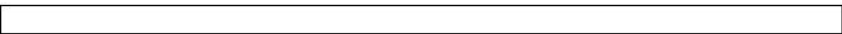


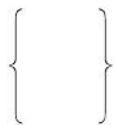
[]



















































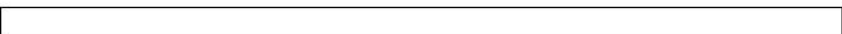








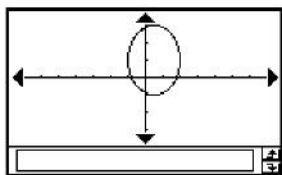
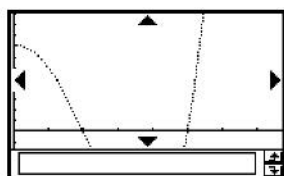




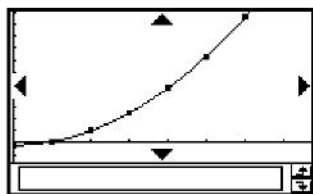








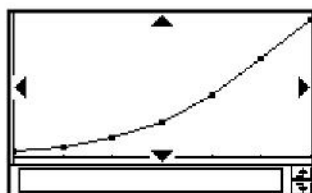
x	y1
0	-2
1	1
2	10
3	25
4	46



A TI-84 Plus calculator screen displaying a table with two columns: n and a_n . The values are as follows:

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

The screen also shows a cursor on the first row, a scroll bar on the right, and a status bar at the bottom with the number 0.





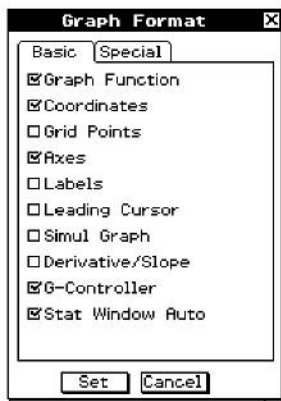


13

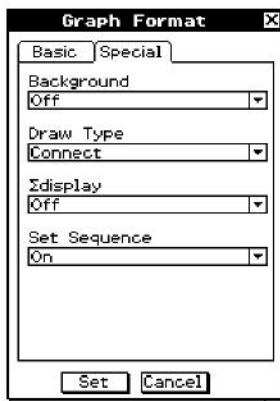




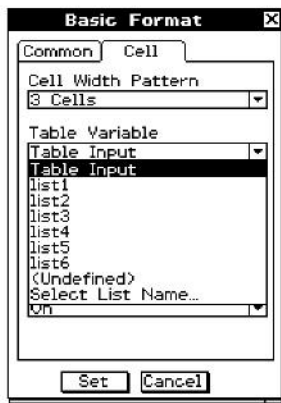




Alg Standard Cplx Rad [MODE]

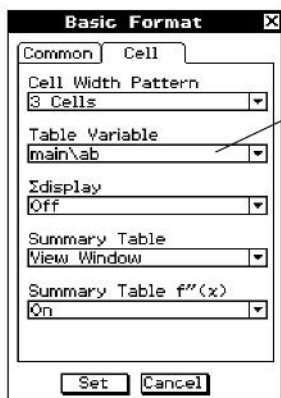


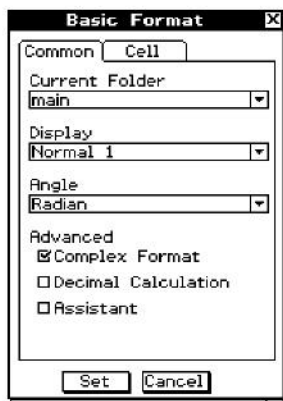
Alg Standard Cplx Rad [MODE]



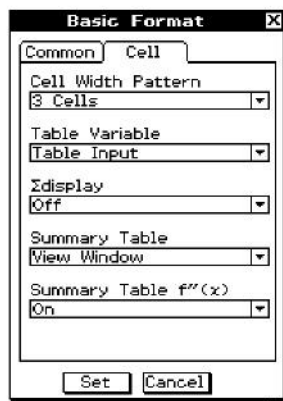
Rlg Standard Cplx Rad 







Alg Standard Cplx Rad



Alg Standard Cplx Rad

















3D Format [X]

Coordinates
Rectangular ▾

Axes
Off ▾

Labels
Off ▾

Background
Off ▾

G-Controller

Set Cancel











Communication [X]

Hard Copy
To outer device ▾

Cable Type
USB cable ▾

Speed(Serial)
115200 bps ▾

Wakeup Enable
On ▾

Set Cancel



14



System	
Reset	Init.
Lang	
Main Memory Add-In App	
Memory Usage	
<input type="checkbox"/> Setup	3K
<input type="checkbox"/> Graph Sheet	744
<input type="checkbox"/> 3D Graph Sheet	272
<input type="checkbox"/> Graph Summary	0
<input type="checkbox"/> View Window	400
<input type="checkbox"/> 3D View Window	320
<input type="checkbox"/> Factor	64
<input type="checkbox"/> Table	312
<input type="checkbox"/> Conics Eqn	0
<input type="checkbox"/> Sequence	536
<input type="checkbox"/> Stat List	144
<input type="checkbox"/> Stat Result	0
<input type="checkbox"/> Numeric Solve	88
<input type="checkbox"/> Ans Memory	52
<input type="checkbox"/> Random Value	64
Delete	
505820 Bytes FREE	
English	







System

Reset Init

Main Memory Add-In App

Memory Usage

<input type="checkbox"/> Setup		3K
<input type="checkbox"/> Graph Sheet	744	
<input type="checkbox"/> 3D Graph Sheet	272	
<input type="checkbox"/> Graph Summary	0	
<input type="checkbox"/> View Window	400	
<input type="checkbox"/> 3D View Window	320	
<input type="checkbox"/> Factor	64	
<input type="checkbox"/> Table	312	
<input type="checkbox"/> Conics Eqn	0	
<input type="checkbox"/> Sequence	536	
<input type="checkbox"/> Stat List	144	
<input type="checkbox"/> Stat Result	0	
<input type="checkbox"/> Numeric Solve	88	
<input type="checkbox"/> Ans Memory	52	
<input type="checkbox"/> Random Value	64	

Delete

505020 Bytes FREE

English













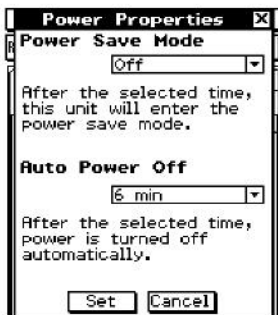


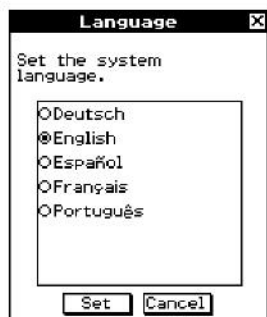
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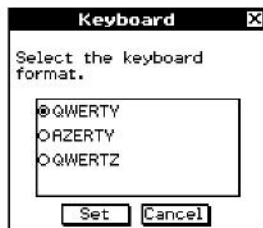


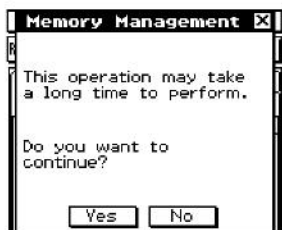






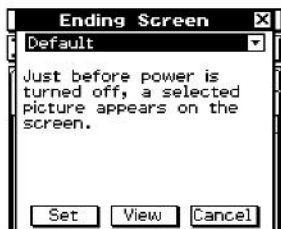


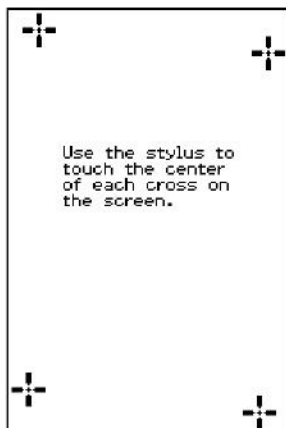


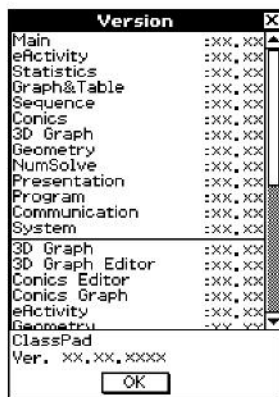


ESC







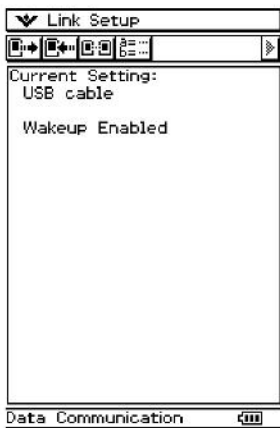


15

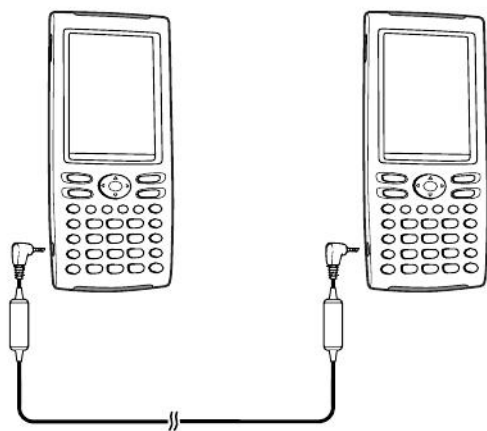


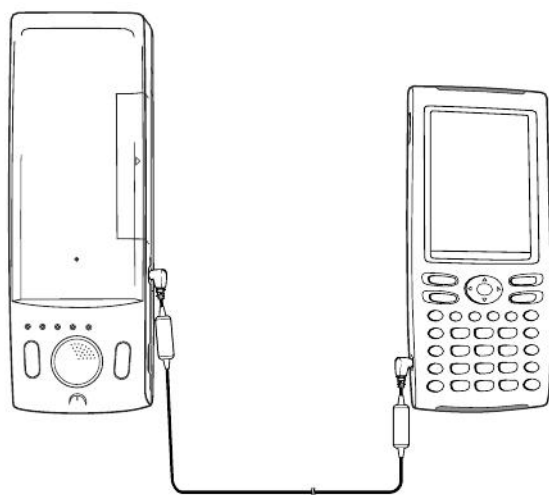


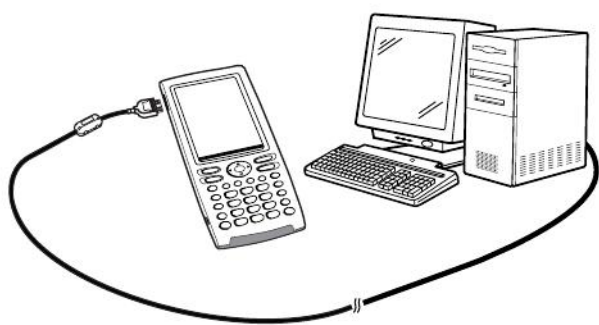








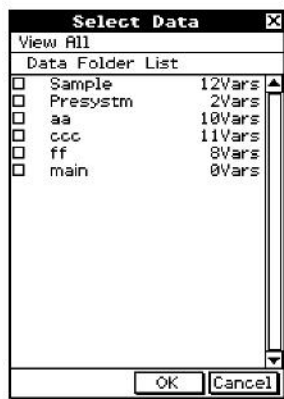








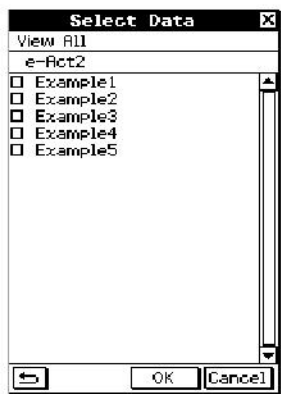
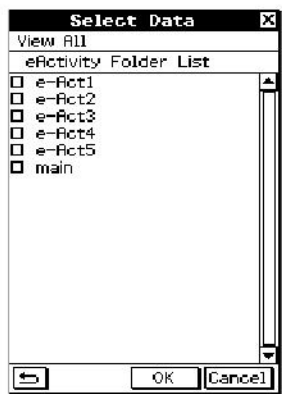
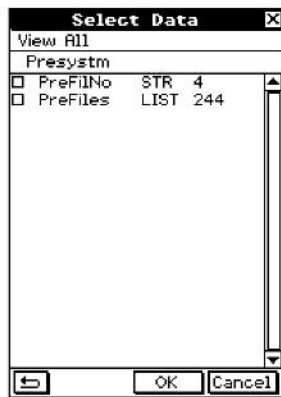
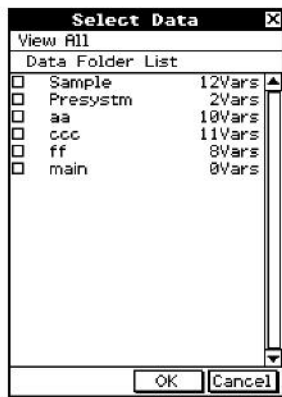






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View All		
Data Folder List		
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<input type="checkbox"/>	Presystm	2Vars
<input type="checkbox"/>	aa	10Vars
<input type="checkbox"/>	ccc	11Vars
<input type="checkbox"/>	ff	8Vars
<input type="checkbox"/>	main	0Vars

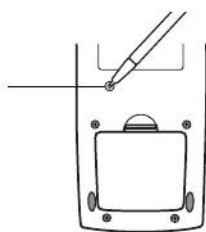










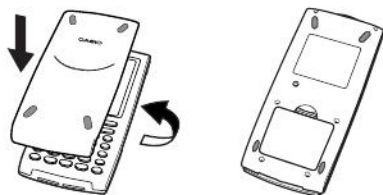


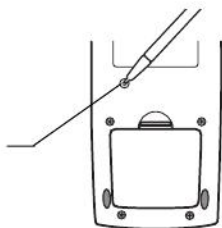
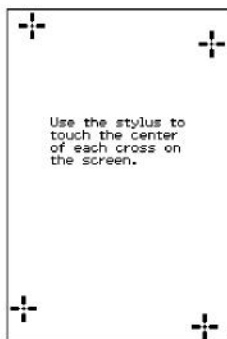
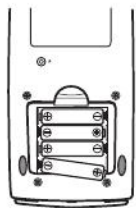
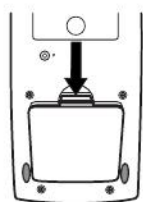


ESC













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maar inleveren als
KCA**



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