



fx-500ES

Appendix

Phụ lục

Apéndice

ملحق

Appendice

Lampiran

附錄

Apêndice



RCA502135-001V01

CASIO®

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#001**MATH**
 $\frac{2}{3} + \frac{1}{2}$
 $\frac{1}{2}$
 $\frac{2}{3} + \frac{1}{2}$
 $\frac{7}{6}$
LINE
 $2 \frac{2}{3} + 1 \frac{1}{2}$
 $\frac{1}{2}$
 $2 \frac{2}{3} + 1 \frac{1}{2}$
 $7 \frac{1}{6}$
#002

$$3 \frac{1}{4} + 1 \frac{2}{3} = 4 \frac{11}{12}$$

MATH
 $3 \frac{1}{4} + 1$
 $\frac{1}{4}$
 $3 \frac{1}{4} + 1$
 $3 \frac{1}{4} + 1 \frac{2}{3}$
 $\frac{1}{3}$
 $3 \frac{1}{4} + 1 \frac{2}{3}$
 $4 \frac{11}{12}$
LINE
 $3 \frac{1}{4} + 1 \frac{2}{3}$
 $\frac{1}{3}$
 $3 \frac{1}{4} + 1 \frac{2}{3}$
 $4 \frac{11}{12}$

$$4 - 3 \frac{1}{2} = \frac{1}{2}$$

MATH
 $4 - 3 \frac{1}{2}$
 $\frac{1}{2}$
 $4 - 3 \frac{1}{2}$
 $\frac{1}{2}$
LINE
 $4 - 3 \frac{1}{2}$
 $\frac{1}{2}$
 $4 - 3 \frac{1}{2}$
 $1 \frac{1}{2}$
#003**LINE**
 2%
 $\frac{1}{50}$
 2%
 0.02

#004 LINE

1 5 0 \times 2 0
 SHIFT () (%) =

150⁰ × 20%
 30

#005 LINE

6 6 0 \div 8 8 0
 SHIFT () (%) =

660⁰ \div 880%
 75

#006 LINE

2 5 0 0 + 2 5 0 0
 \times 1 5 SHIFT () (%) =

2500⁰ + 2500⁰ × 15%
 2875

#007 LINE

3 5 0 0 - 3 5 0 0
 \times 2 5 SHIFT () (%) =

3500⁰ - 3500⁰ × 25%
 2625

#008 LINE

1 6 8 + 9 8 +
 7 3 4 =

168⁰ + 98⁰ + 734⁰
 1000

- Ans \times 2 0 SHIFT () (%) =

Ans⁰ - Ans⁰ × 20%
 800

#009 LINE

(5 0 0 + 3 0 0)
 \div 5 0 0 SHIFT () (%) =

(500⁰ + 300⁰) \div 500%
 160

#010 LINE

(4 6 = 4 0) ÷
4 0 SHIFT ((%) =

$(46-40) \div 40\%$
15

▶▶▶▶ DEL 8 =

$(48-40) \div 40\%$
20

#011 LINE

2 ° ° ° 0 ° ° ° 3 0 ° ° ° =

$2^{\circ}0'30''$
 $2^{\circ}0'30''$

#012 LINE

2 ° ° ° 2 0 ° ° ° 3 0 ° ° ° +
0 ° ° ° 3 9 ° ° ° 3 0 ° ° ° =

$2^{\circ}20'30'' + 0^{\circ}39'3''$
 $3^{\circ}0'0''$

#013 LINE

2 . 2 5 5 =

2.255
2.255

° ° °

2.255
 $2^{\circ}15'18''$

° ° °

2.255
2.255

#014 **LINE** $4 \times 3 + 2.5 = 14.5$
 $4 \times 3 - 7.1 = 4.9$

4 **X** **3** **+** **2** **.** **5** **=**

4x3+2.5
14.5

AC

|
0

◀

4x3+2.5|
0

DEL **DEL** **DEL** **DEL**

4x3|
0

- **7** **.** **1** **=**

4x3-7.1
4.9

#015 **LINE** $\frac{9 \times 6 + 3}{5 \times 8} = 1.425$

9 **X** **6** **+** **3**
SHIFT **RCL** (STO) **◻** (B)

9x6+3→B
57

5 **X** **8** **SHIFT** **RCL** (STO) **hyp** (C)

5x8→C
40

ALPHA **◻** (B) **÷** **ALPHA** **hyp** (C) **=**

B÷C
1.425

#016 **LINE** **Deg**
 $\sin(30)$
 $\sin(30)$
0.5

 $\sin^{-1}(0.5)$
 $\sin^{-1}(0.5)$
30
#017 **LINE**
 $\sinh(1)$
 $\sinh(1)$
1.175201194

 $\cosh^{-1}(1)$
 $\cosh^{-1}(1)$
0
#018 **LINE** **Deg**
 $\cos(\pi^r)$
 $\cos(\pi^r)$
-1

 $\cos(100^g)$
 $\cos(100^g)$
0
#019 **MATH**
 $\cos^{-1}(-1)$
 $\cos^{-1}(-1)$
180

 $\cos^{-1}(-1)$
 $\cos^{-1}(-1)$
 π

#020 $\log_2 16 = 4$

MATH

\log_2 2 1 6 =

Math ▲
 $\log_2(16)$
4

LINE

log 2 SHIFT) (,)
1 6) =

▲
 $\log(2, 16)$
4

#021 **LINE** $\log 16 = 1.204119983$

log 1 6) =

▲
 $\log(16)$
1.204119983

*1 _____

#022 **LINE**

$\ln 90 (= \log_e 90) = 4.49980967$

ln 9 0) =

▲
 $\ln(90)$
4.49980967

$\ln e = 1$

ln ALPHA $\times 10^x$ (e)) =

▲
 $\ln(e)$
1

#023 **LINE** $e^{10} = 22026.46579$

SHIFT ln (e^x) 1 0 =

▲
 e^{10}
22026.46579

#024 **MATH**

$1.2 \times 10^3 = 1200$

1 \cdot 2 \times
 SHIFT log (10[■]) 3 =

1.2 \times 10³ Math ▲
 1200

$(1 + 1)^{2+2} = 16$

(1 + 1) x^y 2 + 2 =

(1+1)²⁺² Math ▲
 16

#025

$(5^2)^3 = 15625$

MATH

(5 x^2)
 x^3 =

(5²)³ Math ▲
 15625

$(\sqrt{2} + 1)(\sqrt{2} - 1) = 1$

LINE ($\sqrt{\square}$ 2) + 1)
 ($\sqrt{\square}$ 2) - 1) =

($\sqrt{2}$ +1)($\sqrt{2}$ -1) Math ▲
 1

$5\sqrt[5]{32} = 2$

5 SHIFT x^y ($\sqrt[3]{\square}$) 3 2) =

5 \times $\sqrt[5]{32}$ Math ▲
 2

#026

LINE $(-2)^{\frac{2}{3}} = 1.587401052$

((-) 2) x^y
 2 = 3) =

(-2)^(2/3) Math ▲
 1.587401052

#027

LINE $3\sqrt{5} + 3\sqrt{-27} = -1.290024053$

SHIFT $\sqrt{\square}$ ($\sqrt[3]{\square}$) 5) +
 SHIFT $\sqrt{\square}$ ($\sqrt[3]{\square}$) (-) 2 7) =

3 $\sqrt{5}$ +3 $\sqrt{-27}$ Math ▲
 -1.290024053

#028 **LINE** $\frac{1}{\frac{1}{3} - \frac{1}{4}} = 12$

(3 $\frac{1}{x}$ - 4 $\frac{1}{x}$) $\frac{1}{x}$ =

(3⁻¹-4⁻¹)⁻¹ \blacktriangle
12

#029 **Deg** $(X, Y) = (\sqrt{2}, \sqrt{2}) \rightarrow (r, \theta)$

MATH **SHIFT** + (Pol) $\sqrt{\square}$ 2 \blacktriangleright
SHIFT) (, $\sqrt{\square}$ 2 \blacktriangleright) =

Pol($\sqrt{2}$, $\sqrt{2}$) \blacktriangle Math \blacktriangle
r=2, θ =45

LINE **SHIFT** + (Pol) $\sqrt{\square}$ 2)
SHIFT) (, $\sqrt{\square}$ 2)) =

Pol($\sqrt{2}$, $\sqrt{2}$) \blacktriangle
r= 2
 θ = 45

#030 **LINE** **Deg** $(r, \theta) = (2, 30) \rightarrow (X, Y)$

SHIFT - (Rec) 2 **SHIFT**) (,
3 0) =

Rec(2, 30) \blacktriangle
X= 1.732050808
Y= 1

#031 **LINE**

(5 + 3) **SHIFT** $\frac{1}{x}$ (x!) =

(5+3)! \blacktriangle
40320

#032

MATH **Abs** 2 - 7 =

|2-7| \blacktriangle Math \blacktriangle
5

LINE **Abs** 2 - 7) =

Abs(2-7) \blacktriangle
5

#033 LINE

$\boxed{1} \boxed{0} \boxed{0} \boxed{0}$ 1000Ran#
 SHIFT $\boxed{\cdot}$ (Ran#) $\boxed{=}$ 662

$\boxed{=}$ 1000Ran#
 73

$\boxed{=}$ 1000Ran#
 165

#034 LINE

$\boxed{1} \boxed{0}$ SHIFT $\boxed{\times}$ (nPr) $\boxed{4} \boxed{=}$ 10P4
 5040

$\boxed{1} \boxed{0}$ SHIFT $\boxed{\div}$ (nCr) $\boxed{4} \boxed{=}$ 10C4
 210

#035 LINE

$\boxed{1} \boxed{2} \boxed{3} \boxed{4} \boxed{=}$ 1234
 1234

\boxed{ENG} 1234
 1.234×10^{-3}

\boxed{ENG} 1234
 1234×10^0

#036 **LINE**

$$\boxed{1} \boxed{2} \boxed{3} \boxed{=} \quad \begin{array}{|l|} \hline 123 \\ \hline 123 \\ \hline \end{array}$$

$$\boxed{\text{SHIFT}} \boxed{\text{ENG}} (\leftarrow) \quad \begin{array}{|l|} \hline 123 \\ \hline 0.123 \times 10^3 \\ \hline \end{array}$$

$$\boxed{\text{SHIFT}} \boxed{\text{ENG}} (\leftarrow) \quad \begin{array}{|l|} \hline 123 \\ \hline 0.000123 \times 10^6 \\ \hline \end{array}$$

#037 **MATH**

$$\boxed{\text{SHIFT}} \boxed{\times 10^x} (\pi) \boxed{\times} \boxed{\frac{2}{5}} \boxed{\downarrow} \boxed{5} \boxed{=} \quad \begin{array}{|l|} \hline \pi \times \frac{2}{5} \\ \hline \frac{2}{5} \pi \\ \hline \end{array}$$

$$\boxed{\text{S}\blacktriangleright} \quad \begin{array}{|l|} \hline \pi \times \frac{2}{5} \\ \hline 1.256637061 \\ \hline \end{array}$$

#038 **MATH**

$$\boxed{\sqrt{\square}} \boxed{2} \boxed{\blacktriangleright} \boxed{\times} \boxed{\sqrt{\square}} \boxed{3} \boxed{=} \quad \begin{array}{|l|} \hline \sqrt{2} \times \sqrt{3} \\ \hline \sqrt{6} \\ \hline \end{array}$$

$$\boxed{\text{S}\blacktriangleright} \quad \begin{array}{|l|} \hline \sqrt{2} \times \sqrt{3} \\ \hline 2.449489743 \\ \hline \end{array}$$

#039

$$\bar{x} = \frac{\sum x}{n}$$

$$x\sigma_n = \sqrt{\frac{\sum (x - \bar{x})^2}{n}}$$

$$x\sigma_{n-1} = \sqrt{\frac{\sum (x - \bar{x})^2}{n-1}}$$

#040

SHIFT **MODE** **▼** **4** (STAT) **1** (ON)
MODE **2** (STAT)

1: 1-VAR	2: A+BX
3: -+CX ²	4: 1/n X
5: e ^X	6: A·B ^X
7: A·X ^B	8: 1/X

1 (1-VAR)

STAT	0
X	FREQ
1	
2	
3	

1 **=** **2** **=** **3** **=** **4** **=**
5 **=** **6** **=** **7** **=** **8** **=**
9 **=** **1** **0** **=**

STAT	0
X	FREQ
9	9
10	1
11	

AC

STAT	0

#041

SHIFT **1** (STAT) **2** (Data)

STAT	0
X	FREQ
1	
2	
3	

1

SHIFT **1** (STAT) **3** (Edit) **1** (Ins)

STAT	0
X	FREQ
1	
2	
3	

0

\blacktriangledown \blacktriangledown \blacktriangledown \blacktriangledown \blacktriangledown \blacktriangledown \blacktriangledown \blacktriangledown \blacktriangledown \blacktriangledown DEL

STAT		D	
%	6	FREQ	
7	7		
8	7		
9	7		

9

AC

STAT		D	

0

#042

SHIFT 1 (STAT) 2 (Data) \blacktriangleright

STAT		D	
%	0	FREQ	
1	2		
2	2		

1

\blacktriangledown 2 = \blacktriangledown 2 = 2 =
 2 = 3 = 4 = 2 =

STAT		D	
%	7	FREQ	
8	10		4
9	10		4

1

AC

STAT		D	

0

#043

SHIFT 1 (STAT) 4 (Sum)

1: Σx^2 2: Σx

1 (Σx^2) =

STAT		D	
Σx^2			

672

SHIFT 1 (STAT) 4 (Sum)
2 (Σx) =

STAT		D	
Σx			

102

#044

SHIFT **1** (STAT) **5** (Var)

1:n 2: \bar{x}
3: $x\sigma n$ 4: $x\sigma n-1$

1 (n) **≡**

STAT 0
n
20

SHIFT **1** (STAT) **5** (Var) **2** (\bar{x}) **≡**

STAT 0
 \bar{x}
5.1

SHIFT **1** (STAT) **5** (Var)

3 ($x\sigma n$) **≡**

STAT 0
 $x\sigma n$
2.754995463

#045

SHIFT **1** (STAT) **6** (MinMax)

1:minX 2:maxX

1 (minX) **≡**

STAT 0
minX
0

SHIFT **1** (STAT) **6** (MinMax)

2 (maxX) **≡**

STAT 0
maxX
10

#046

$$\bar{x} = \frac{\Sigma x}{n}$$

$$\sigma_n = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n}}$$

$$\sigma_{n-1} = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n-1}}$$

$$\bar{y} = \frac{\Sigma y}{n}$$

$$\sigma_n = \sqrt{\frac{\Sigma (y - \bar{y})^2}{n}}$$

$$\sigma_{n-1} = \sqrt{\frac{\Sigma (y - \bar{y})^2}{n-1}}$$

$$A = \frac{\Sigma y - B \cdot \Sigma x}{n}$$

$$B = \frac{n \cdot \Sigma xy - \Sigma x \cdot \Sigma y}{n \cdot \Sigma x^2 - (\Sigma x)^2}$$

$$r = \frac{n \cdot \Sigma xy - \Sigma x \cdot \Sigma y}{\sqrt{\{n \cdot \Sigma x^2 - (\Sigma x)^2\} \{n \cdot \Sigma y^2 - (\Sigma y)^2\}}}$$

$$\hat{x} = \frac{y - A}{B}$$

$$\hat{y} = A + Bx$$

#047

x	y	x	y
1.0	1.0	2.1	1.5
1.2	1.1	2.4	1.6
1.5	1.2	2.5	1.7
1.6	1.3	2.7	1.8
1.9	1.4	3.0	2.0

SHIFT MODE ▾ 4 (STAT) 2 (OFF)
MODE 2 (STAT)

1: 1-VAR	2: A+BX
3: $Y=C+X^2$	4: $\ln X$
5: e^X	6: $A \cdot B^X$
7: $A \cdot X^B$	8: $1/X$

2 (A+BX) 1 =

STAT		Y
X		
1.0		0
1.2		
1.5		
1.6		
1.9		

1 . 2 = 1 . 5 =
1 . 6 = 1 . 9 =
2 . 1 = 2 . 4 =
2 . 5 = 2 . 7 =
3 =

STAT		Y
X		
1.0		0
1.2		
1.5		
1.6		
1.9		
2.1		0
2.4		

▾ ▶ 1 =

STAT		Y
X		
1.0		0
1.2		
1.5		
1.6		
1.9		
2.1		0
2.4		
2.5		0

1 . 1 = 1 . 2 =
1 . 3 = 1 . 4 =
1 . 5 = 1 . 6 =
1 . 7 = 1 . 8 =
2 =

STAT		Y
X		
1.0		0
1.2		
1.5		
1.6		
1.9		
2.1		0
2.4		
2.5		0
2.7		0

AC

STAT		Y
X		
1.0		0
1.2		
1.5		
1.6		
1.9		
2.1		0
2.4		
2.5		0
2.7		0
3.0		0

#048**SHIFT** **1** (STAT) **4** (Sum)

1: Σx^2	2: Σx
3: Σy^2	4: Σy
5: Σxy	6: Σx^3
7: Σx^2y	8: Σx^4

5 (Σxy) **=**

Σxy	STAT	0
		30.96

SHIFT **1** (STAT) **5** (Var)

1: n	2: \bar{x}
3: $x\sigma n$	4: $x\sigma n-1$
5: y	6: $y\sigma n$
7: $y\sigma n-1$	

3 ($x\sigma n$) **=**

$x\sigma n$	STAT	0
		0.63

SHIFT **1** (STAT) **6** (MinMax)

1: $\min X$	2: $\max X$
3: $\min Y$	4: $\max Y$

4 ($\max Y$) **=**

$\max Y$	STAT	0
		2

#049

SHIFT 1 (STAT) 7 (Reg)

1: A	2: B
3: r	4: \hat{x}
5: \hat{y}	

1 (A) =

STAT	0
A	
	0.5043587805

SHIFT 1 (STAT) 7 (Reg)
2 (B) =

STAT	0
B	
	0.4802217183

SHIFT 1 (STAT) 7 (Reg) 3 (r) =

STAT	0
r	
	0.9952824846

#050

*1

(←) 3 SHIFT 1 (STAT)
7 (Reg) 4 (\hat{x}) =

STAT	0
-3 \hat{x}	
	-7.297376705

*2

2 SHIFT 1 (STAT) 7 (Reg)
5 (\hat{y}) =

STAT	0
2 \hat{y}	
	1.464802217

#051

$$A = \frac{\Sigma y}{n} - B\left(\frac{\Sigma x}{n}\right) - C\left(\frac{\Sigma x^2}{n}\right)$$

$$B = \frac{S_{xy} \cdot S_{x^2x^2} - S_{x^2y} \cdot S_{xx^2}}{S_{xx} \cdot S_{x^2x^2} - (S_{xx^2})^2}$$

$$C = \frac{S_{x^2y} \cdot S_{xx} - S_{xy} \cdot S_{xx^2}}{S_{xx} \cdot S_{x^2x^2} - (S_{xx^2})^2}$$

$$S_{xx} = \Sigma x^2 - \frac{(\Sigma x)^2}{n}$$

$$S_{xy} = \Sigma xy - \frac{(\Sigma x \cdot \Sigma y)}{n}$$

$$S_{xx^2} = \Sigma x^3 - \frac{(\Sigma x \cdot \Sigma x^2)}{n}$$

$$S_{x^2x^2} = \Sigma x^4 - \frac{(\Sigma x^2)^2}{n}$$

$$S_{x^2y} = \Sigma x^2y - \frac{(\Sigma x^2 \cdot \Sigma y)}{n}$$

$$\hat{x}_1 = \frac{-B + \sqrt{B^2 - 4C(A - y)}}{2C}$$

$$\hat{x}_2 = \frac{-B - \sqrt{B^2 - 4C(A - y)}}{2C}$$

$$\hat{y} = A + Bx + Cx^2$$

#052

SHIFT **1** (STAT) **1** (Type)

1: 1-VAR	2: A+BX
3: $_+CX^2$	4: $\ln X$
5: e^X	6: $A \cdot B^X$
7: $A \cdot X^B$	8: $1/X$

3 ($_+CX^2$)

STAT		θ
X	Y	
1.2	1.1	
1.5	1.2	

1

AC

STAT		θ

0

#053

SHIFT **1** (STAT) **7** (Reg)

1: A	2: B
3: C	4: $\Sigma 1$
5: $\Sigma 2$	6: Σ

1 (A) **=**

STAT		θ
A		
		0.7028598638

SHIFT **1** (STAT) **7** (Reg)

2 (B) **=**

STAT		θ
B		
		0.2576384379

SHIFT **1** (STAT) **7** (Reg)

3 (C) **=**

STAT		θ
C		
		0.05610274153

#054

$$y = 3 \rightarrow \hat{x}_1 = ?$$

3 **SHIFT** **1** (STAT) **7** (Reg)
4 (\hat{x}_1) **=**

STAT	D
3 \hat{x} 1	
4.502211457	

$$y = 3 \rightarrow \hat{x}_2 = ?$$

3 **SHIFT** **1** (STAT) **7** (Reg)
5 (\hat{x}_2) **=**

STAT	D
3 \hat{x} 2	
-9.094472563	

$$x = 2 \rightarrow \hat{y} = ?$$

2 **SHIFT** **1** (STAT) **7** (Reg)
6 (\hat{y}) **=**

STAT	D
2 \hat{y}	
1.442547706	

#055

$$A = \frac{\Sigma y - B \cdot \Sigma \ln x}{n}$$

$$B = \frac{n \cdot \Sigma (\ln x)y - \Sigma \ln x \cdot \Sigma y}{n \cdot \Sigma (\ln x)^2 - (\Sigma \ln x)^2}$$

$$r = \frac{n \cdot \Sigma (\ln x)y - \Sigma \ln x \cdot \Sigma y}{\sqrt{\{n \cdot \Sigma (\ln x)^2 - (\Sigma \ln x)^2\} \{n \cdot \Sigma y^2 - (\Sigma y)^2\}}}$$

$$\hat{x} = e^{\frac{y-A}{B}}$$

$$\hat{y} = A + B \ln x$$

#056

$$A = \exp\left(\frac{\sum \ln y - B \cdot \sum x}{n}\right)$$

$$B = \frac{n \cdot \sum x \ln y - \sum x \cdot \sum \ln y}{n \cdot \sum x^2 - (\sum x)^2}$$

$$r = \frac{n \cdot \sum x \ln y - \sum x \cdot \sum \ln y}{\sqrt{\{n \cdot \sum x^2 - (\sum x)^2\} \{n \cdot \sum (\ln y)^2 - (\sum \ln y)^2\}}}$$

$$\hat{x} = \frac{\ln y - \ln A}{B}$$

$$\hat{y} = A e^{Bx}$$

#057

$$A = \exp\left(\frac{\sum \ln y - B \cdot \sum x}{n}\right)$$

$$B = \exp\left(\frac{n \cdot \sum x \ln y - \sum x \cdot \sum \ln y}{n \cdot \sum x^2 - (\sum x)^2}\right)$$

$$r = \frac{n \cdot \sum x \ln y - \sum x \cdot \sum \ln y}{\sqrt{\{n \cdot \sum x^2 - (\sum x)^2\} \{n \cdot \sum (\ln y)^2 - (\sum \ln y)^2\}}}$$

$$\hat{x} = \frac{\ln y - \ln A}{\ln B}$$

$$\hat{y} = AB^x$$

#058

$$A = \exp\left(\frac{\sum \ln y - B \cdot \sum \ln x}{n}\right)$$

$$B = \frac{n \cdot \sum \ln x \ln y - \sum \ln x \cdot \sum \ln y}{n \cdot \sum (\ln x)^2 - (\sum \ln x)^2}$$

$$r = \frac{n \cdot \sum \ln x \ln y - \sum \ln x \cdot \sum \ln y}{\sqrt{\{n \cdot \sum (\ln x)^2 - (\sum \ln x)^2\} \{n \cdot \sum (\ln y)^2 - (\sum \ln y)^2\}}}$$

$$\hat{x} = e^{\frac{\ln y - \ln A}{B}}$$

$$\hat{y} = Ax^B$$

#059

$$A = \frac{\sum y - B \cdot \sum x^{-1}}{n}$$

$$B = \frac{S_{xy}}{S_{xx}}$$

$$r = \frac{S_{xy}}{\sqrt{S_{xx} \cdot S_{yy}}}$$

$$S_{xx} = \sum (x^{-1})^2 - \frac{(\sum x^{-1})^2}{n}$$

$$S_{yy} = \sum y^2 - \frac{(\sum y)^2}{n}$$

$$S_{xy} = \sum (x^{-1})y - \frac{\sum x^{-1} \cdot \sum y}{n}$$

$$\hat{x} = \frac{B}{y - A}$$

$$\hat{y} = A + \frac{B}{x}$$

#060

SHIFT **1** (STAT) **1** (Type)

1: 1-VAR	2: A+BX
3: -+CX ²	4: ln X
5: e ^X	6: A•B ^X
7: A•X ^B	8: 1/X

4 (ln X) **AC** **SHIFT** **1** (STAT)
7 (Reg) **3** (r) **≡**

STAT	0
r	
	0.9753724902

SHIFT **1** (STAT) **1** (Type)
5 (e^X) **AC** **SHIFT** **1** (STAT)
7 (Reg) **3** (r) **≡**

STAT	0
r	
	0.9967116738

SHIFT **1** (STAT) **1** (Type)
6 (A•B^X) **AC** **SHIFT** **1** (STAT)
7 (Reg) **3** (r) **≡**

STAT	0
r	
	0.9967116738

SHIFT **1** (STAT) **1** (Type)
7 (A•X^B) **AC** **SHIFT** **1** (STAT)
7 (Reg) **3** (r) **≡**

STAT	0
r	
	0.9917108781

SHIFT **1** (STAT) **1** (Type)
8 (1/X) **AC** **SHIFT** **1** (STAT)
7 (Reg) **3** (r) **≡**

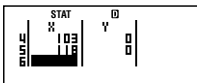
STAT	0
r	
	-0.9341328778

#061 $y = A + B \ln x$

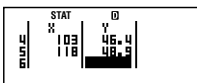
x	y
29	1.6
50	23.5
74	38.0
103	46.4
118	48.9

SHIFT MODE \blacktriangledown 4 (STAT) 2 (OFF)
 MODE 2 (STAT) 4 (ln X)

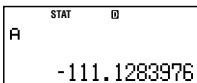
2 9 = 5 0 = 7 4 =
 1 0 3 = 1 1 8 =



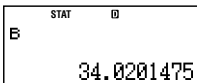
\blacktriangledown \blacktriangleright 1 . 6 =
 2 3 . 5 =
 3 8 = 4 6 . 4 =
 4 8 . 9 =



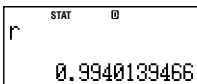
AC SHIFT 1 (STAT) 7 (Reg)
 1 (A) =



SHIFT 1 (STAT) 7 (Reg)
 2 (B) =

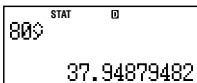


SHIFT 1 (STAT) 7 (Reg)
 3 (r) =



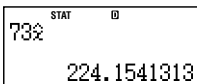
$$x = 80 \rightarrow \hat{y} = ?$$

8 0 SHIFT 1 (STAT) 7 (Reg)
 5 (\hat{y}) =



$$y = 73 \rightarrow \hat{x} = ?$$

7 3 SHIFT 1 (STAT) 7 (Reg)
 4 (\hat{x}) =



#062 $y = Ae^{Bx}$

x	y
6.9	21.4
12.9	15.7
19.8	12.1
26.7	8.5
35.1	5.2

SHIFT MODE \blacktriangledown 4 (STAT) 2 (OFF)
MODE 2 (STAT) 5 (e^X)

6 . 9 = 1 2 . 9 =
1 9 . 8 =
2 6 . 7 =
3 5 . 1 =

STAT		θ
ΣX	26.7	Y
ΣY	35.1	0
ΣXY		0

\blacktriangledown \blacktriangleright 2 1 . 4 =
1 5 . 7 =
1 2 . 1 = 8 . 5 =
5 . 2 =

STAT		θ
ΣX	26.7	Y
ΣY	35.1	8.5
ΣXY		5.2

AC SHIFT 1 (STAT) 7 (Reg) A
1 (A) =

STAT		θ
R		
		30.49758743

SHIFT 1 (STAT) 7 (Reg) B
2 (B) =

STAT		θ
B		
		-0.04920370831

SHIFT 1 (STAT) 7 (Reg) r
3 (r) =

STAT		θ
r		
		-0.997247352

$$x = 16 \rightarrow \hat{y} = ?$$

1 6 SHIFT 1 (STAT) 7 (Reg) 16 \diamond
5 (\hat{y}) =

STAT		θ
16 \diamond		
		13.87915739

$$y = 20 \rightarrow \hat{x} = ?$$

2 0 SHIFT 1 (STAT) 7 (Reg) 20 \diamond
4 (\hat{x}) =

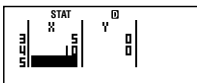
STAT		θ
20 \diamond		
		8.574868047

#063 $y = AB^x$

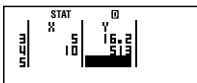
x	y
-1	0.24
3	4
5	16.2
10	513

SHIFT MODE \blacktriangledown 4 (STAT) 2 (OFF)
 MODE 2 (STAT) 6 (A•B^X)

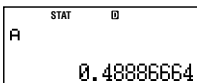
(-) 1 = 3 = 5 =
 1 0 =



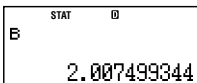
\blacktriangledown \blacktriangleright 0 . 2 4 = 4 =
 1 6 . 2 = 5 1 3 =



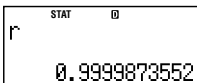
AC SHIFT 1 (STAT) 7 (Reg) R
 1 (A) =



SHIFT 1 (STAT) 7 (Reg) B
 2 (B) =

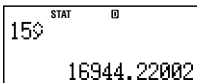


SHIFT 1 (STAT) 7 (Reg) r
 3 (r) =



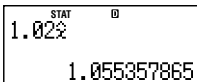
$x = 15 \rightarrow \hat{y} = ?$

1 5 SHIFT 1 (STAT) 7 (Reg) 15 \diamond
 5 (\hat{y}) =



$y = 1.02 \rightarrow \hat{x} = ?$

1 . 0 2 SHIFT 1 (STAT) 1.02 \diamond
 7 (Reg) 4 (\hat{x}) =

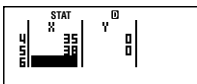


#064 $y = Ax^B$

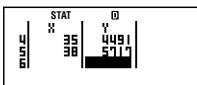
x	y
28	2410
30	3033
33	3895
35	4491
38	5717

SHIFT MODE \blacktriangledown 4 (STAT) 2 (OFF)
 MODE 2 (STAT) 7 (A•X^B)

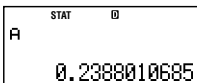
2 8 = 3 0 = 3 3 =
 3 5 = 3 8 =



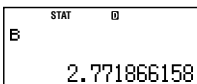
\blacktriangledown \blacktriangleright 2 4 1 0 =
 3 0 3 3 =
 3 8 9 5 =
 4 4 9 1 =
 5 7 1 7 =



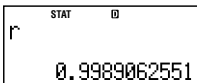
AC SHIFT 1 (STAT) 7 (Reg) A
 1 (A) =



SHIFT 1 (STAT) 7 (Reg) B
 2 (B) =

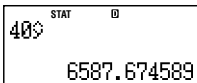


SHIFT 1 (STAT) 7 (Reg) r
 3 (r) =



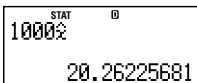
$$x = 40 \rightarrow \hat{y} = ?$$

4 0 SHIFT 1 (STAT) 7 (Reg) 40
 5 (\hat{y}) =



$$y = 1000 \rightarrow \hat{x} = ?$$

1 0 0 0 SHIFT 1 (STAT) 1000
 7 (Reg) 4 (\hat{x}) =

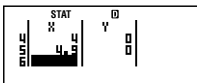


#065 $y = A + \frac{B}{x}$

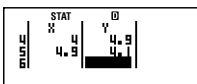
x	y
1.1	18.3
2.1	9.7
2.9	6.8
4.0	4.9
4.9	4.1

SHIFT MODE \blacktriangledown 4 (STAT) 2 (OFF)
MODE 2 (STAT) 8 (1/X)

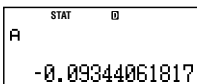
1 \cdot 1 = 2 \cdot 1 =
2 \cdot 9 = 4 =
4 \cdot 9 =



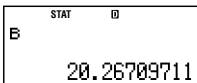
\blacktriangledown \blacktriangleright 1 8 \cdot 3 =
9 \cdot 7 = 6 \cdot 8 =
4 \cdot 9 = 4 \cdot 1 =



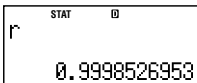
AC SHIFT 1 (STAT) 7 (Reg) A
1 (A) =



SHIFT 1 (STAT) 7 (Reg) B
2 (B) =

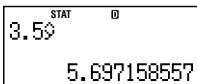


SHIFT 1 (STAT) 7 (Reg) r
3 (r) =



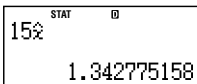
$x = 3.5 \rightarrow \hat{y} = ?$

3 \cdot 5 SHIFT 1 (STAT)
7 (Reg) 5 (\hat{y}) =



$y = 15 \rightarrow \hat{x} = ?$

1 5 SHIFT 1 (STAT) 7 (Reg)
4 (\hat{x}) =



#066

MATH

$$\begin{cases} X + 2Y = 3 \\ 2X + 3Y = 4 \end{cases}$$

MODE 3 (EQN)

1: $anX+bnY=cn$
 2: $anX+bnY+CnZ=dn$
 3: $aX^2+bX+c=0$
 4: $aX^3+bX^2+cX+d=0$

1 (anX+bnY=cn)

0 Math
 [a] b c
 [1] [2] [0]
 0

1 = 2 = 3 =
 2 = 3 = 4 =

0 Math
 [a] b c
 [1] [2] [3] [4]
 4

=

0 Math
 X=
 -1

v

0 Math
 Y=
 2

#067

MATH

$$X^2 + 2X + 3 = 0$$

MODE 3 (EQN)

1: $anX+bnY=cn$
 2: $anX+bnY+CnZ=dn$
 3: $aX^2+bX+c=0$
 4: $aX^3+bX^2+cX+d=0$

3 (aX²+bX+c=0)

0 Math
 [a] b c
 [1] [2] [0]
 0

1 = 2 = 3 =

0 Math
 [a] b c
 [1] [2] [3]
 3

$$X_1 = -1 + 1.414213562i$$

$$X_2 = -1 - 1.414213562i$$

#068

MATH

$$\begin{cases} X - Y + Z = 2 \\ X + Y - Z = 0 \\ -X + Y + Z = 4 \end{cases}$$

MODE 3 (EQN)

1: $a_nX + b_nY = c_n$
 2: $a_nX + b_nY + c_nZ = d_n$
 3: $aX^2 + bX + c = 0$
 4: $aX^3 + bX^2 + cX + d = 0$

2 ($a_nX + b_nY + c_nZ = d_n$)

$$\begin{array}{c|ccc} & a & b & c \\ \hline 1 & 1 & -1 & 1 \\ 2 & 1 & 1 & -1 \\ 3 & -1 & 1 & 1 \end{array} \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \begin{array}{c} 2 \\ 0 \\ 4 \end{array}$$

1 = (-) 1 = 1 = 2 =
 1 = 1 = (-) 1 = 0 =
 (-) 1 = 1 = 1 = 4 =

$$\begin{array}{c|ccc} & b & c & d \\ \hline 1 & -1 & 1 & 2 \\ 2 & 1 & -1 & 0 \\ 3 & 1 & 1 & 4 \end{array}$$

$$X = 1$$

$$Y = 2$$

$$Z = 3$$

#069

MATH

$$X^3 - 2X^2 - X + 2 = 0$$

MODE 3 (EQN)

1: $ax+by=c$
 2: $ax+by+cz=d$
 3: $ax^2+bx+c=0$
 4: $ax^3+bx^2+cx+d=0$

4 (aX³+bX²+cX+d=0)

a b c d
 0 0 0 0
 0

1 = (-) 2 =
 (-) 1 = 2 =

b -2 c -1 d
 0 0 0 0
 2

=

X₁=
 -1

▼

X₂=
 2

▼

X₃=
 1

#070 **MATH** $X^2 - 4X + 4 = 0$

MODE **3** (EQN) **3** ($aX^2+bX+c=0$)

$\overset{0}{a}$ $\overset{0}{b}$ $\overset{\text{Math}}{c}$ $0]$
 \emptyset

1 **=** **(-)** **4** **=** **4** **=**

$\overset{0}{a}$ $\overset{\text{Math}}{b}$ $\overset{0}{c}$ $0]$
 4

=

$\overset{0}{X=}$ $\overset{\text{Math}}{}$
 2

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