HESAPLAMA ÖRNEKLERİ

1 [SET UP] (FSE)

100000 ÷ 3 =		
[NORM1]	[ON/C] 100000 [÷] 3 [=] [CHANGE] [CHANGE]	33'333.33333
→ [FIX: TAB 2]	[2ndF] [SET UP] [1] [0] 2	33'333.33
→ [SCI: SIG 2]	[2ndF] [SET UP] [1] [1] 2	3.3E04
→ [ENG: TAB 2]	[2ndF] [SET UP] [1] [2] 2	33.33E03
→ [NORM1]	[2ndF] [SET UP] [1] [3]	33'333.33333

2 [SET UP] (EDITOR)

→ [APPROX.]	[ON/C] [2ndF] [SET UP] [2] [0] [1]	0.
1 ÷ 2 =	1 [÷] 2 [=]	0.5
→ [EXACT(a/b,√,π)]	[ON/C] [2ndF] [SET UP] [2] [0] [0]	0.
1 ÷ 2 =	1 [÷] 2 [=]	$\frac{1}{2}$

3 [SET UP] (RECURRING DECIMAL)

→ [ON]	[ON/C] [2ndF] [SET UP] [5] [1]	0.
611 ÷ 495 =	611 [÷] 495 [=]	$1\frac{116}{495}$
	[CHANGE]	$\frac{611}{495}$
	[CHANGE]	$1.2\overline{34}$
	[CHANGE]	1.234343434
	[CHANGE]	$1\frac{116}{495}$
LINE	611 [÷] 495 [=]	1.2(34)
	[CHANGE]	1.234343434
	[CHANGE]	1r116r495
	[CHANGE]	611r495
	[CHANGE]	1.2(34)
→ [OFF]	[ON/C] [2ndF] [SET UP] [5] [0]	0.

4 [CHANGE]

$\frac{2}{5}+\frac{3}{4}=$	[ON/C] 2 [a/b] 5 [▶] [+] [a/b] 3 [▶] 4 [=]	$1\frac{3}{20}$
	[CHANGE]	$\frac{23}{20}$
	[CHANGE]	1.15
	[CHANGE]	$1\frac{3}{20}$
$\sqrt{3}\times\sqrt{5}=$	[√] 3 [▶] [×] [√] 5 [=]	$\sqrt{15}$
	[CHANGE]	3.872983346
sin 45 =	[sin] 45 [=]	$\frac{\sqrt{2}}{2}$
	[CHANGE]	0.707106781

5 [▲] [▼]

	[2ndF] [CA]	0.
① 3(5 + 2) =	3 [(] 5 [+] 2 [)] [=]	21.
② 3 × 5 + 2 =	3 [×] 5 [+] 2 [=]	17.
③ (5 + 3) × 2 =	[(] 5 [+] 3 [)] [×] 2 [=]	16.
→ ①	[2ndF] [▲]	21.
→ ②	[▼]	17.
→ ①	[▲]	21.
→ ③	[2ndF] [▼]	16.

6 [+] [−] [×] [÷] [(] [)] [(−)] [Exp]

45 + 285 ÷ 3 =	[ON/C] 45 [+] 285 [÷] 3 [=]	140.
(18 + 6) ÷ (15 − 8) =	[(] 18 [+] 6 [)] [÷] [(] 15 [−] 8 [=]	$3\frac{3}{7}$
42 × −5 + 120 =	42 [×] [(−)] 5 [+] 120 [=]	-90.
$(5\times10^3)\div(4\times10^{-3})=$	5 [Exp] 3 [÷] 4 [Exp] [(−)] 3 [=]	1'250'000.

7

34 + 57 =	34 [+] 57 [=]	91.
45 + 57 =	45 [=]	102.
68 × 25 =	68 [×] 25 [=]	1'700.
68 × 40 =	40 [=]	2'720.

8 [<ENG] [ENG>]

6789=	6789 [=]	6'789.
	[ALPHA] [ENG>]	6.789E03
	[ALPHA] [ENG>]	0.006789E06
	[ALPHA] [<ENG] [ALPHA] [<ENG]	6798.E00
	[ALPHA] [<ENG]	6789000.E-03

9 [sin] [cos] [tan] [$\sin^{-1}$] [$\cos^{-1}$] [$\tan^{-1}$] [π] [hyp] [arc hyp] [ln] [log] [$\log_a x$] [e^x] [e] [10^x] [x^{-1}] [x^2] [x^3] [√] [y^x] [$\sqrt[x]{}$] [$\sqrt[3]{}$] [n!] [nPr] [nCr] [%] [abs]

sin 60 [°] =	[ON/C] [2ndF] [SET UP] [0] [0] [sin] 60 [=]	$\frac{\sqrt{3}}{2}$
	[CHANGE]	0.866025403
$\cos\frac{\pi}{4}$ [rad] =	[2ndF] [SET UP] [0] [1] [cos] [π] [a/b] 4 [=]	$\frac{\sqrt{2}}{2}$
	[CHANGE]	0.707106781
$\tan^{-1}1$ [g] =	[2ndF] [SET UP] [0] [2] [2ndF] [$\tan^{-1}$] 1 [=]	50.
	[2ndF] [SET UP] [0] [0]	
$(\cosh 1.5+\sinh 1.5)^2=$	[ON/C] [(] [hyp] [cos] 1.5 [+] [hyp] [sin] 1.5 [)] [x^2] [=]	20.08553692
$\tanh^{-1}\frac{5}{7}=$	[2ndF] [arc hyp] [tan] [(] 5 [÷] 7 [)] [=]	0.895879734
ln 20 =	[ln] 20 [=]	2.995732274
log 50 =	[log] 50 [=]	1.698970004
$\log_2 16384=$	[2ndF] [$\log_a x$] 2 [▶] 16384 [=]	14.
LINE	[2ndF] [$\log_a x$] 2 [(x,y)] 16384 [)] [=]	14.
$e^3=$	[2ndF] [e^x] 3 [=]	20.08553692
1 ÷ e =	1 [÷] [ALPHA] [e] [=]	0.367879441
$10^{1.7}=$	[2ndF] [10^x] 1.7 [=]	50.11872336
$\frac{1}{6}+\frac{1}{7}=$	6 [2ndF] [x^{-1}] [+] 7 [2ndF] [x^{-1}] [=]	$\frac{13}{42}$
	[CHANGE]	0.309523809
$8^{-2}-3^4\times5^2=$	8 [y^x] [(−)] 2 [▶] [−] 3 [y^x] 4 [▶] [×] 5 [x^2] [=]	$-2024\frac{63}{64}$
	[CHANGE]	$-\frac{129599}{64}$
	[CHANGE]	-2'024.984375
LINE	8 [y^x] [(−)] 2 [−] 3 [y^x] 4 [×] 5 [x^2] [=]	-2'024.984375
	[CHANGE]	-2024r63r64
	[CHANGE]	-129599r64
$8^3=$	8 [2ndF] [x^3] [=]	512.
$\sqrt{49}-\sqrt[4]{81}=$	[√] 49 [▶] [−] 4 [2ndF] [$\sqrt[x]{}$] 81 [=]	4.
LINE	[√] 49 [−] 4 [2ndF] [$\sqrt[x]{}$] 81 [=]	4.
$\sqrt[3]{27}=$	[2ndF] [$\sqrt[3]{}$] 27 [=]	3.
4! =	4 [2ndF] [n!] [=]	24.
$_{10}P_3=$	10 [2ndF] [nPr] 3 [=]	720.
$_5C_2=$	5 [2ndF] [nCr] 2 [=]	10.
500 × 25% =	500 [×] 25 [2ndF] [%]	125.
120 ÷ 400 = ?%	120 [÷] 400 [2ndF] [%]	30.

500 + (500 × 25%) =	500 [+] 25 [2ndF] [%]	625.
400 − (400 × 30%) =	400 [−] 30 [2ndF] [%]	280.
$\lvert 5-9 \rvert$ =	[2ndF] [abs] 5 [−] 9 [=]	4.

	$\theta = \sin^{-1}x$, $\theta = \tan^{-1}x$	$\theta = \cos^{-1}x$
DEG	$-90 \le \theta \le 90$	$0 \le \theta \le 180$
RAD	$-\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$	$0 \le \theta \le \pi$
GRAD	$-100 \le \theta \le 100$	$0 \le \theta \le 200$

10 [∫dx] [d/dx]

$\int_2^8 (x^2-5)dx$	[ON/C] [ALPHA] [∫dx] 2 [▲] 8 [▶] [ALPHA] [x] [x^2] [−] 5	
$n = 100$	[=]	138.
$n = 10$	[◀] [◀] [(x,y)] 10 [=]	138.
$\frac{d(x^4-0.5x^3+6x^2)}{dx}$	[ALPHA] [d/dx] [ALPHA] [x] [y^x] 4 [▶] [−] 0.5 [ALPHA] [x] [2ndF] [x^3] [+] 6 [ALPHA] [x] [x^2]	
$\left(\begin{array}{l} x=2 \\ dx=0.00002 \end{array} \right.$	[▶] 2 [=]	50.

11 [Σ]

$\sum_{x=1}^{5}(x+2)$	[ON/C] [ALPHA] [Σ] 1 [▶] 5 [▶] [ALPHA] [x] [+] 2	
$n = 1$	[=]	25.
$n = 2$	[◀] [◀] [(x,y)] 2 [=]	15.

12 [Π]

$\prod_{x=1}^{5}(x+2)$	[ON/C] [ALPHA] [Π] 1 [▶] 5 [▶] [ALPHA] [x] [+] 2	
$n = 1$	[=]	2'520.
$n = 2$	[◀] [◀] [(x,y)] 2 [=]	105.

13 [DRG▸]

90° → [rad]	[ON/C] 90 [2ndF] [DRG▸]	$\frac{1}{2}\pi$
→ [g]	[2ndF] [DRG▸]	100.
→ [°]	[2ndF] [DRG▸]	90.

14 [ALPHA] [RCL] [STO] [M+] [M−] [ANS] [D1] [D2] [D3]

8 × 2 ⇒ M	[ON/C] 8 [×] 2 [STO] [M]	16.
24 ÷ (8 × 2) =	24 [÷] [ALPHA] [M] [=]	$1\frac{1}{2}$
(8 × 2) × 5 =	[ALPHA] [M] [×] 5 [=]	80.
0 ⇒ M	[ON/C] [STO] [M]	0.
$150 × 3 ⇒ M_1	150 [×] 3 [M+]	450.
+) $250: M_1 + 250 ⇒ M_2	250 [M+]	250.
−) M_2 × 5%	[RCL] [M] [×] 5 [2ndF] [%] [2ndF] [M−]	35.
M =	[RCL] [M]	665.
$\frac{24}{4+6} = 2\frac{2}{5}$ …(A)	24 [÷] [(] 4 [+] 6 [)] [=]	$2\frac{2}{5}$
3 × (A) + 60 ÷ (A) =	3 [×] [ALPHA] [ANS] [+] 60 [÷] [ALPHA] [ANS] [=]	$32\frac{1}{5}$
$\sinh^{-1}$ ⇒ D1	[STO] [D1] [2ndF] [arc hyp] [sin]	
$\sinh^{-1}0.5$ =	[D1] 0.5 [=]	0.481211825

15

6 + 4 = ANS	[ON/C] 6 [+] 4 [=]	10.
ANS + 5 =	[+] 5 [=]	15.
8 × 2 = ANS	8 [×] 2 [=]	16.
ANS^2 =	[x^2] [=]	256.

16 [a/b] [ab/c]

$3\frac{1}{2} + \frac{4}{3} =$	[ON/C] 3 [2ndF] [ab/c] 1 [▼] 2 [▶] [+] [a/b] 4 [▼] 3 [=]	$4\frac{5}{6}$
	[CHANGE]	$\frac{29}{6}$
	[CHANGE]	4.833333333
LINE	3 [a/b] 1 [a/b] 2 [+] 4 [a/b] 3 [=]	4r5r6*
	[CHANGE]	29r6
	[CHANGE]	4.833333333

* 4r5r6 = $4\frac{5}{6}$

17 [▸BIN] [▸PEN] [▸OCT] [▸HEX] [▸DEC] [NEG] [NOT] [AND] [OR] [XOR] [XNOR]

DEC (25) → BIN	[ON/C] [2ndF] [▸DEC] 25 [2ndF] [▸BIN]	BIN	11001
HEX (1AC)	[2ndF] [▸HEX] 1AC		
→ BIN	[2ndF] [▸BIN]	BIN	110101100
→ PEN	[2ndF] [▸PEN]	PEN	3203
→ OCT	[2ndF] [▸OCT]	OCT	654
→ DEC	[2ndF] [▸DEC]		428.
BIN (111) → NEG	[2ndF] [▸BIN] [NEG] 111 [=]	BIN	1111111001
1011 AND 101 = [BIN]	[2ndF] [▸BIN] 1011 [AND] 101 [=]	BIN	1
5A OR C3 = [HEX]	[2ndF] [▸HEX] 5A [OR] C3 [=]	HEX	DB
NOT 10110 = [BIN]	[2ndF] [▸BIN] [NOT] 10110 [=]	BIN	1111101001
24 XOR 4 = [OCT]	[2ndF] [▸OCT] 24 [XOR] 4 [=]	OCT	20
B3 XNOR 2D = [HEX]	[2ndF] [▸HEX] B3 [XNOR] 2D [=]	HEX	FFFFFFFF61
→ DEC	[2ndF] [▸DEC]		-159.

18 [D°M'S] [↔DEG]

7°31'49.44" → [10]	[ON/C] 7 [D°M'S] 31 [D°M'S] 49.44 [2ndF] [↔DEG]	$7\frac{663}{1250}$
123.678 → [60]	123.678 [2ndF] [↔DEG]	123°40'40.8"
3h 30m 45s + 6h 45m 36s = [60]	3 [D°M'S] 30 [D°M'S] 45 [+] 6 [D°M'S] 45 [D°M'S] 36 [=]	10°16'21."
1234°56'12" + 0°0'34.567" = [60]	1234 [D°M'S] 56 [D°M'S] 12 [+] 0 [D°M'S] 0 [D°M'S] 34.567 [=]	1234°56'47."
3h 45m − 1.69h = [60]	3 [D°M'S] 45 [−] 1.69 [=] [2ndF] [↔DEG]	2°3'36."
sin62°12'24" = [10]	[sin] 62 [D°M'S] 12 [D°M'S] 24 [=]	0.884635235
24° → ["]	24 [D°M'S] [MATH] [1]	86'400.
1500" → [']	0 [D°M'S] 0 [D°M'S] 1500 [MATH] [2]	25.

19 [→rθ] [→xy] [(x,y)]

$\left(\begin{array}{l} x=6 \\ y=4 \end{array} \right. \rightarrow \left(\begin{array}{l} r= \\ \theta = [°] \end{array} \right.$	[ON/C] 6 [(x,y)] 4 [2ndF] [→rθ]	r: θ:	7.211102551 33.69006753
$\left(\begin{array}{l} r=14 \\ \theta=36\ [°] \end{array} \right. \rightarrow \left(\begin{array}{l} x= \\ y= \end{array} \right.$	14 [(x,y)] 36 [2ndF] [→xy]	X: Y:	11.32623792 8.228993532

20 [CONST] [CONV]

V_0 = 15.3 m/s, t = 10 s, $V_0t + \frac{1}{2}gt^2$ = ? m	[ON/C] 15.3 [×] 10 [+] 2 [2ndF] [x^{-1}] [×] [ALPHA] [CONST] 03 [×] 10 [x^2] [=] [CHANGE]	643.3325
125 yd = ? m	[ON/C] 125 [ALPHA] [CONV] 05 [=] [CHANGE] [CHANGE]	114.3

21 [MATH] (ENG.SYMBOL)

100 m × 10 k = ?	100 [MATH] [0] [4] [×] 10 [MATH] [0] [0] [=]	1'000.

22 [MDF]

→ [FIX, TAB = 1]	[ON/C] [2ndF] [SET UP] [1] [0] 1	0.0
5 ÷ 9 = ANS	5 [÷] 9 [=]	$\frac{5}{9}$
	[CHANGE]	0.6
ANS × 9 =	[×] 9 [=] *1	5.0
	5 [÷] 9 [=]	$\frac{5}{9}$
	[CHANGE]	0.6
→ [MDF]	[2ndF] [MDF]	$\frac{3}{5}$
ANS × 9 =	[×] 9 [=] *2	$5\frac{2}{5}$
	[CHANGE] [CHANGE]	5.4
→ [NORM1]	[2ndF] [SET UP] [1] [3]	5.4

*1 $\frac{5}{9} \times 9 = 5.5555555555555 \times 10^{-1} \times 9$

*2 $\frac{3}{5} \times 9 = 0.6 \times 9$

23 [int÷] [MATH] (ipart, fpart, int, (%))

23 ÷ 5	[ON/C] 23 [2ndF] [int÷] 5 [=]	Q: 4. R: 3.
9.5 ÷ 4	9.5 [2ndF] [int÷] 4 [=]	Q: 2. R: 1.5
-32 ÷ (-5)	[(−)] 32 [2ndF] [int÷] [(−)] 5 [=]	Q: 6. R: −2.
42.195 → [ipart]	[MATH] [3] 42.195 [=]	42.
$\sqrt{2}$ → [fpart]	[MATH] [4] [√] 2 [=]	0.414213562
-34.5 → [int]	[MATH] [5] [(−)] 34.5 [=]	−35.
50 × 8(%) + 200	50 [×] 8 [MATH] [6] [+] 200 [=]	204.

24 [P.FACT]

12210 =	[ON/C] 12210 [=]	12'210.
	[2ndF] [P.FACT]	2×3×5×11×37
	[2ndF] [P.FACT]	12'210.
1234567 =	1234567 [=]	1'234'567.
	[2ndF] [P.FACT]	127×(9721)

25 [ALGB] (ALGB)

$f(x) = x^3 - 3x^2 + 2$	[ON/C] [ALPHA] [x] [2ndF] [x^3] [−] 3 [ALPHA] [x] [x^2] [+] 2	
$x = -1$	[2ndF] [ALGB] [(−)] 1 [ENTER]	-2.
$x = -0.5$	[2ndF] [ALGB] [(−)] 0.5 [ENTER]	$1\frac{1}{8}$
$\sqrt{A^2+B^2}$	[√] [ALPHA] [A] [x^2] [+] [ALPHA] [B] [x^2]	
A = 2, B = 3	[2ndF] [ALGB] 2 [ENTER] 3 [ENTER]	$\sqrt{13}$
A = 2, B = 5	[2ndF] [ALGB] [ENTER] 5 [ENTER]	$\sqrt{29}$

26 [SOLVER] (SOLVER)

$\sin x - 0.5$	[ON/C] [sin] [ALPHA] [x] [−] 0.5	
Start = 0	[2ndF] [SOLVER] 0 [ENTER] [ENTER]	30.
Start = 180	[ENTER] 180 [ENTER] [ENTER]	150.

27 [MODE] (STAT) [INS-D]

DATA: 20, 30, 40, 40, 50

[MODE] [1] [0]

	X	FRQ
1		

20 [ENTER] 30 [ENTER] 40 [(x,y)] 2 [ENTER] 50 [ENTER]

↓

	X	FRQ
3	40	2
4	50	1
5		

DATA: 30, 40, 40, **45**, **45**, **45**, **60**

[2ndF] [▲] [2ndF] [DEL] [▼] [▼] [ALPHA] [INS-D]
45 [(x,y)] 3 [ENTER] 60 [ENTER]

	X	FRQ
3	45	3
4	60	1
5		

28 [MODE] (STAT) [DATA] [STAT] [x′] [y′]

DATA: 95, 80, 80, 75, 75, 75, 50

[MODE] [1] [0] [2ndF] [CA] [DATA]
95 [ENTER] 80 [(x,y)] 2 [ENTER] 75 [(x,y)] 3 [ENTER] 50 [ENTER]

	X	FRQ
3	75	3
4	50	1
5		

[DATA] Stat 0 [SD] 0.

[ALPHA] [STAT] [0]
n = 7.
$\bar{x}$ = 75.7142857
sx = 13.3630621
↓ s^2x = 178.571429

[▼]
↑ σx = 12.3717915
$\sigma^2 x$ = 153.061224
Σx = 530.
↓ Σx^2 = 41'200.

[▼]
↑ $xmin$ = 50.
Q_1 = 75.
med = 75.
↓ Q_3 = 80.

[▼]
↑ $xmax$ = 95.

$\frac{(95-\bar{x})}{sx} \times 10 + 50 =$
[ON/C] [(] 95 [−] [ALPHA] [STAT] [2] [1] [)] [÷] [ALPHA] [STAT] [2] [2] [×] 10 [+] 50 [=] 64.43210706

x	y
2	5
2	5
12	24
21	40
21	40
21	40
15	25

[MODE] [1] [1] 2 [(x,y)] 5 [(x,y)] 2 [ENTER]
12 [(x,y)] 24 [ENTER] 21 [(x,y)] 40 [(x,y)] 3 [ENTER] 15 [(x,y)] 25 [ENTER]

	X	Y	FRQ
3	21	40	3
4	15	25	1
5			

[DATA] Stat 1[a+bx] 0.

[ALPHA] [STAT] [1]
$a + bx$
a = 1.050261097
b = 1.826044386
↓ r = 0.995176343

[ON/C] [ALPHA] [STAT] [0] [▼] [▼] [▼] [▼] [▼]
↑ Σx^4 = 654'836.
$ymin$ = 5.
$ymax$ = 40.

$x = 3 \rightarrow y' = ?$ [ON/C] 3 [2ndF] [y′] 3y′ 6.528394256

$y = 46 \rightarrow x' = ?$ 46 [2ndF] [x′] 46x′ 24.61590706

---

x	y
12	41
8	13
5	2
23	200
15	71

[MODE] [1] [2] 12 [(x,y)] 41 [ENTER]
8 [(x,y)] 13 [ENTER] 5 [(x,y)] 2 [ENTER]
23 [(x,y)] 200 [ENTER] 15 [(x,y)] 71 [ENTER]

	X	Y	FRQ
4	23	200	1
5	15	71	1
6			

[DATA] Stat 2[a+bx+cx²] 0.

[ALPHA] [STAT] [1]
$a + bx + cx^2$
a = 5.357506761
b = -3.120289663
↓ c = 0.503334057

[▼]
↑ $a + bx + cx^2$
R^2 = 0.99994896

$x = 10 \rightarrow y' = ?$ [ON/C] 10 [2ndF] [y′] 10y′ 24.4880159

$y = 22 \rightarrow x' = ?$ 22 [2ndF] [x′]
22x′
1: 9.63201409
2: -3.432772026

22 [ALPHA] [STAT] [5] [5] -3.432772026

29

$$\bar{x} = \frac{\Sigma x}{n} \qquad \sigma x = \sqrt{\frac{\Sigma x^2 - n\bar{x}^2}{n}}$$

$$sx = \sqrt{\frac{\Sigma x^2 - n\bar{x}^2}{n-1}}$$

$$\bar{y} = \frac{\Sigma y}{n} \qquad \sigma y = \sqrt{\frac{\Sigma y^2 - n\bar{y}^2}{n}}$$

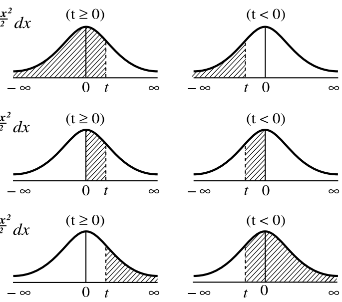
$$sy = \sqrt{\frac{\Sigma y^2 - n\bar{y}^2}{n-1}}$$

30 [MATH] (→t, P(, Q(, R()

$$P(t) = \frac{1}{\sqrt{2\pi}}\int_{-\infty}^{t} e^{-\frac{x^2}{2}}dx$$

$$Q(t) = \frac{1}{\sqrt{2\pi}}\int_{0}^{t} e^{-\frac{x^2}{2}}dx$$

$$R(t) = \frac{1}{\sqrt{2\pi}}\int_{t}^{\infty} e^{-\frac{x^2}{2}}dx$$



x	FRQ
20	1
30	3
40	5
50	8
60	13
70	10
80	7
90	3

[MODE] [1] [0] 20 [(x,y)] 1 [ENTER]
30 [(x,y)] 3 [ENTER] 40 [(x,y)] 5 [ENTER]
50 [(x,y)] 8 [ENTER] 60 [(x,y)] 13 [ENTER]
70 [(x,y)] 10 [ENTER] 80 [(x,y)] 7 [ENTER]
90 [(x,y)] 3 [ENTER]

	X	FRQ
7	80	7
8	90	3
9		

[DATA] Stat 0[SD] 0.

$\bar{x} =$ [ALPHA] [STAT] [2] [1] [=] $\bar{x}$= 60.4

$\sigma x =$ [ALPHA] [STAT] [2] [4] [=] σx= 16.48757108

$x = 35 \rightarrow P(t)?$ [MATH] [1] 35 [MATH] [0] [)] [=] 0.061713

$x = 75 \rightarrow Q(t)?$ [MATH] [2] 75 [MATH] [0] [)] [=] 0.312061

$x = 85 \rightarrow R(t)?$ [MATH] [3] 85 [MATH] [0] [)] [=] 0.067845

$t = 1.5 \rightarrow R(t)?$ [MATH] [3] 1.5 [)] [=] 0.066807

31 [MODE] (TABLE)

$x^2 + 1$ [MODE] [2] [ALPHA] [x] [x²] [+] 1 [ENTER] [ENTER]

X_Start: -2 [(−)] 2 [ENTER]
X_Step: 1 1 [ENTER]

X	ANS
−2	5
−1	2
0	1

−2.

[▼] [▼] [▼] [▼]

X	ANS
0	1
1	2
2	5

2.

$x^2 + 1$ [MODE] [2] [ALPHA] [x] [x²] [+] 1 [ENTER]

$x + 5$ [ALPHA] [x] [+] 5 [ENTER]

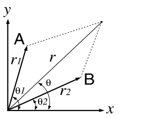
X_Start: 1 1 [ENTER]
X_Step: 1 1 [ENTER]

X	ANS1	ANS2
1	2	6
2	5	7
3	10	8

1.

32 [MODE] (COMPLEX)

$(12 - 6i) + (7 + 15i) - (11 + 4i) =$
[MODE] [3]
12 [−] 6 [i] [+] 7 [+] 15 [i] [−] [(] 11 [+] 4 [i] [)] [=]
8.
+5.i



$r1 = 8, \theta 1 = 70°$
$r2 = 12, \theta 2 = 25°$
$\rightarrow r = ?, \theta = ?°$

[2ndF] [→rθ] 8 [2ndF] [∠] 70 [+] 12 [2ndF] [∠] 25 [=]
18.5408873
∠42.76427608

$1 + i$
$\rightarrow r = ?, \theta = ?°$
[2ndF] [→xy] 1 [+] [i] [=]
1.
+1.i
[2ndF] [→rθ]
1.414213562
∠45.

conj(5 + 2i) = [2ndF] [→xy] [MATH] [0] 5 [+] 2 [i] [)] [=]
5.
-2.i

arg(2 + 3i) [MATH] [1] 2 [+] 3 [i] [)] [=] 56.30993247

real(15 ∠ 30) [MATH] [2] 15 [2ndF] [∠] 30 [)] [=] 12.99038106

img(15 ∠ 30) [MATH] [3] 15 [2ndF] [∠] 30 [)] [=] 7.5

33 [MODE] (2-VLE, 3-VLE, QUAD, CUBIC)

$\begin{cases} 2x + 3y = 4 \\ 5x + 6y = 7 \end{cases}$
[MODE] [4] [0]
2 [ENTER] 3 [ENTER] 4 [ENTER]
5 [ENTER] 6 [ENTER] 7

$x = ?$
$y = ?$
det(D) = ?
[ENTER]
X: -1.
Y: 2.
D: -3.

$\begin{cases} x + y - z = 9 \\ 6x + 6y - z = 17 \\ 14x - 7y + 2z = 42 \end{cases}$
[MODE] [4] [1]
1 [ENTER] 1 [ENTER] [(−)] 1 [ENTER] 9 [ENTER]
6 [ENTER] 6 [ENTER] [(−)] 1 [ENTER] 17 [ENTER]
14 [ENTER] [(−)] 7 [ENTER] 2 [ENTER] 42

$x = ?$
$y = ?$
$z = ?$
det(D) = ?
[ENTER]
X: 3.238095238
Y: -1.638095238
Z: -7.4
D: 105.

$3x^2 + 4x - 95 = 0$
[MODE] [4] [2]
3 [ENTER] 4 [ENTER] [(−)] 95

$x = ?$
[ENTER]
X= ↓
1: 5.
2: -6.333333333

[ENTER] X-Value: ↑
-0.666666666
Ymin: -96.33333333

$5x^3 + 4x^2 + 3x + 7 = 0$
[MODE] [4] [3]
5 [ENTER] 4 [ENTER] 3 [ENTER] 7

$x = ?$
[ENTER]
X=
1: -1.233600307
2: 0.216800153
±1.043018296i

34 [MODE] (MATRIX)

$\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} \Rightarrow$ matA	[MODE] [5] [MATH] [1] 2 2 [ENTER] 1 [ENTER] 2 [ENTER] 3 [ENTER] 4 [ENTER] [ON/C] [MATH] [3] [0]	
$\begin{bmatrix} 3 & 1 \\ 2 & 6 \end{bmatrix} \Rightarrow$ matB	[MATH] [1] [ENTER] 3 [ENTER] 1 [ENTER] 2 [ENTER] 6 [ENTER] [ON/C] [MATH] [3] [1]	
matA $\times$ matB =	[ON/C] [MATH] [0] [0] [×] [MATH] [0] [1] [=]	$\begin{bmatrix} 7 & 13 \\ 17 & 27 \end{bmatrix}$
dim (matA, 3, 3) =	[ON/C] [MATH] [7] [MATH] [0] [0] [(x,y)] 3 [(x,y)] 3 [)] [=]	$\begin{bmatrix} 1 & 2 & 0 \\ 3 & 4 & 0 \\ 0 & 0 & 0 \end{bmatrix}$

35 [MODE] (VECTOR)

$\begin{bmatrix} 5 \\ 6 \end{bmatrix} \Rightarrow$ vectA	[MODE] [6] [MATH] [1] 2 [ENTER] 5 [ENTER] 6 [ENTER] [ON/C] [MATH] [3] [0]	
$\begin{bmatrix} 7 \\ 8 \end{bmatrix} \Rightarrow$ vectB	[MATH] [1] 2 [ENTER] 7 [ENTER] 8 [ENTER] [ON/C] [MATH] [3] [1]	
vectA + vectB =	[ON/C] [MATH] [0] [0] [+] [MATH] [0] [1] [=]	$\begin{bmatrix} 12 \\ 14 \end{bmatrix}$
DotPro (vectA, vectB) =	[ON/C] [MATH] [4] [MATH] [0] [0] [(x,y)] [MATH] [0] [1] [)] [=]	83.

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Function	Dynamic range
$\sin x$, $\cos x$, $\tan x$	DEG: $\lvert x\rvert < 10^{10}$ ($\tan x$: $\lvert x\rvert \neq 90(2n-1)$)* RAD: $\lvert x\rvert < \frac{\pi}{180} \times 10^{10}$ ($\tan x$: $\lvert x\rvert \neq \frac{\pi}{2}(2n-1)$)* GRAD: $\lvert x\rvert < \frac{10}{9} \times 10^{10}$ ($\tan x$: $\lvert x\rvert \neq 100(2n-1)$)*
$\sin^{-1} x$, $\cos^{-1} x$	$\lvert x\rvert \le 1$
$\tan^{-1} x$, $\sqrt[3]{x}$	$\lvert x\rvert < 10^{100}$
$\ln x$, $\log x$, $\log_a x$	$10^{-99} \le x < 10^{100}$, $10^{-99} \le a < 10^{100}$ $(a \neq 1)$
y^x	• $y > 0$: $-10^{100} < x \log y < 100$ • $y = 0$: $0 < x < 10^{100}$ • $y < 0$: $x = n$ $(0 < \lvert x\rvert < 1$: $\frac{1}{x} = 2n - 1$, $x \neq 0)$*, $-10^{100} < x \log \lvert y\rvert < 100$
$\sqrt[x]{y}$	• $y > 0$: $-10^{100} < \frac{1}{x} \log y < 100$ $(x \neq 0)$ • $y = 0$: $0 < x < 10^{100}$ • $y < 0$: $x = 2n - 1$ $(0 < \lvert x\rvert < 1$: $\frac{1}{x} = n$, $x \neq 0)$*, $-10^{100} < \frac{1}{x} \log \lvert y\rvert < 100$
e^x	$-10^{100} < x \le 230.2585092$
10^x	$-10^{100} < x < 100$
$\sinh x$, $\cosh x$, $\tanh x$	$\lvert x\rvert \le 230.2585092$
$\sinh^{-1} x$	$\lvert x\rvert < 10^{50}$
$\cosh^{-1} x$	$1 \le x < 10^{50}$
$\tanh^{-1} x$	$\lvert x\rvert < 1$
x^2	$\lvert x\rvert < 10^{50}$
x^3	$\lvert x\rvert < 2.15443469 \times 10^{33}$
$\sqrt{x}$	$0 \le x < 10^{100}$
x^{-1}	$\lvert x\rvert < 10^{100}$ $(x \neq 0)$
n!	$0 \le n \le 69$*
$_nP_r$	$0 \le r \le n \le 9999999999$* $\frac{n!}{(n-r)!} < 10^{100}$
$_nC_r$	$0 \le r \le n \le 9999999999$* $0 \le r \le 69$ $\frac{n!}{(n-r)!} < 10^{100}$
↔DEG, D°M'S	$0°0'0.00001" \le \lvert x\rvert < 10000°$
$x, y \rightarrow r, \theta$	$\sqrt{x^2 + y^2} < 10^{100}$
$r, \theta \rightarrow x, y$	$0 \le r < 10^{100}$ DEG: $\lvert\theta\rvert < 10^{10}$ RAD: $\lvert\theta\rvert < \frac{\pi}{180} \times 10^{10}$ GRAD: $\lvert\theta\rvert < \frac{10}{9} \times 10^{10}$
DRG▶	DEG → RAD, GRAD → DEG: $\lvert x\rvert < 10^{100}$ RAD → GRAD: $\lvert x\rvert < \frac{\pi}{2} \times 10^{98}$
$_n$GCD$_n$, $_n$LCM$_n$	$0 < n < 10^{10}$ *
R.Int(n, m)	$n \le \lvert 9999999999\rvert$* $m \le \lvert 9999999999\rvert$* $n < m$, $m - n < 10^{10}$
$(A + Bi) + (C + Di)$	$\lvert A + C\rvert < 10^{100}$, $\lvert B + D\rvert < 10^{100}$
$(A + Bi) - (C + Di)$	$\lvert A - C\rvert < 10^{100}$, $\lvert B - D\rvert < 10^{100}$
$(A + Bi) \times (C + Di)$	$(AC - BD) < 10^{100}$ $(AD + BC) < 10^{100}$
$(A + Bi) \div (C + Di)$	$\frac{AC + BD}{C^2 + D^2} < 10^{100}$ $\frac{BC - AD}{C^2 + D^2} < 10^{100}$ $C^2 + D^2 \neq 0$
→ DEC → BIN → PEN → OCT → HEX AND OR XOR XNOR	DEC: $\lvert x\rvert \le 9999999999$ BIN: $1000000000 \le x \le 1111111111$ $0 \le x \le 111111111$ PEN: $2222222223 \le x \le 4444444444$ $0 \le x \le 2222222222$ OCT: $4000000000 \le x \le 7777777777$ $0 \le x \le 3777777777$ HEX: FDABF41C01 $\le x \le$ FFFFFFFFFF $0 \le x \le$ 2540BE3FF
NOT	BIN: $1000000000 \le x \le 1111111111$ $0 \le x \le 111111111$ PEN: $2222222223 \le x \le 4444444444$ $0 \le x \le 2222222221$ OCT: $4000000000 \le x \le 7777777777$ $0 \le x \le 3777777777$ HEX: FDABF41C01 $\le x \le$ FFFFFFFFFF $0 \le x \le$ 2540BE3FE
NEG	BIN: $1000000001 \le x \le 1111111111$ $0 \le x \le 111111111$ PEN: $2222222223 \le x \le 4444444444$ $0 \le x \le 2222222222$ OCT: $4000000001 \le x \le 7777777777$ $0 \le x \le 3777777777$ HEX: FDABF41C01 $\le x \le$ FFFFFFFFFF $0 \le x \le$ 2540BE3FF
Normal pdf Normal cdf	$0 < \sigma$
Inverse Normal	$0 < a < 1$ $0 < \sigma$
Binomial pdf Binomial cdf	$0 < n$ $0 \le p \le 1$
Poisson pdf Poisson cdf	$0 \le x$ (integer) $0 < \mu$

* n, m, r: integer