

$$f(x) = (x-3)(x+4)$$

• (0, -12)

$$y = (0-3)(0+4) = -12, \quad x = 0 \quad y -$$

$$, \quad 0 = (x-3)(x+4), \quad y = 0 \quad x -$$

• (-4, 0) , (3, 0) :

$$x = -4 \quad x = 3$$

$$f(x) = x^2 + 4x - 3x - 12$$

$$\boxed{f(x) = x^2 + x - 12}$$

$$, x = 0 \quad y -$$

• (0, -12)

$$y = 0^2 + 0 - 12 = -12$$

$$, \quad , y = 0 \quad x -$$

$$0 = x^2 + x - 12$$

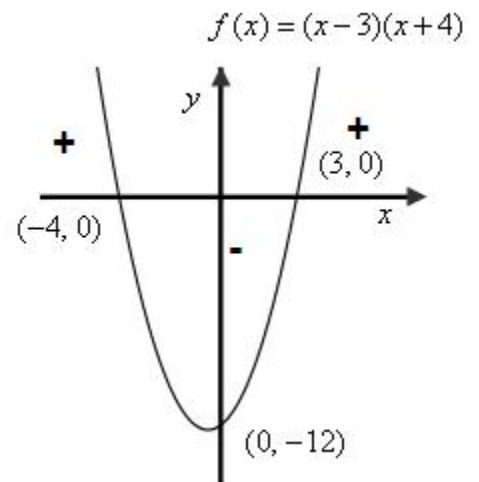
$$x_{1,2} = \frac{-1 \pm 7}{2}$$

$$x_1 = \frac{-1+7}{2} = \frac{6}{2} = 3 \quad \rightarrow (3, 0)$$

$$x_2 = \frac{-1-7}{2} = \frac{-8}{2} = -4 \quad \rightarrow (-4, 0)$$

• (-4, 0) , (3, 0), (0, -12) :

:



• x -

f(x) .

$$. x < -4 \quad x > 3$$

f(x) :

$$d = -2000$$

$$: \quad 78,000$$

$$a_1 + a_2 + a_3 = 78,000$$

$$a_1 + a_1 + d + a_1 + 2d = 78,000$$

$$3a_1 + 3d = 78,000$$

$$3a_1 + 3 \cdot (-2000) = 78,000$$

$$3a_1 - 6000 = 78,000$$

$$3a_1 = 84,000 \quad /: 3$$

$$\boxed{a_1 = 28,000}$$

$$\cdot \quad 28,000 \quad :$$

$$\cdot \quad 2,000 \quad (1) \cdot$$

$$a_n = 2,000$$

$$a_1 + (n-1)d = 2,000$$

$$28,000 + (n-1) \cdot (-2000) = 2,000$$

$$28,000 - 2,000n + 2,000 = 2,000$$

$$28,000 = 2,000n \quad /: 2,000$$

$$\boxed{n = 14}$$

$$\cdot \quad 14 \quad :$$

$$\cdot S_{14} \quad , \quad 14 \quad (2)$$

$$S_{14} = \frac{14[2 \cdot 28,000 - 2000(14-1)]}{2}$$

$$S_{14} = 7 \cdot (56,000 - 2,000 \cdot 13)$$

$$S_{14} = 7 \cdot 30,000$$

$$\boxed{S_{14} = 210,000}$$

$$\cdot \quad 210,000 \quad :$$

$$M_t = M_0 \cdot q^t$$

.t .q ( )  
 . t - M<sub>t</sub> , - M<sub>0</sub>

$$q = 2$$

40,000 08:00

$$6 \cdot 2 = 12, 14:00$$

M <sub>t</sub>	M <sub>0</sub>	q	t
?	40,000	2	12

$$M_{12} = 40,000 \cdot 2^{12}$$

$$M_{12} = 163,840,000$$

163,840,000 14:00 :

40,000 08:00

$$3 \cdot 2 = 6, 05:00$$

M <sub>t</sub>	M <sub>0</sub>	q	t
40,000	?	2	6

$$40,000 = M_0 \cdot 2^6$$

$$\frac{40,000}{2^6} = M_0$$

$$M_0 = 625$$

625 05:00 :

.SO

O,

$$FO = \frac{AB}{2} = \frac{30}{2} = 15 \quad EO = \frac{BC}{2} = \frac{40}{2} = 20$$

ΔSEO

$$\tan \angle SEO = \frac{SO}{EO}$$

$$\tan 55^\circ = \frac{SO}{20}$$

$$20 \tan 55^\circ = SO$$

$$\boxed{SO = 28.56}$$

. " 28.56

.. ∠SFO

SF

ΔSOF

$$\tan \angle SFO = \frac{SO}{OF}$$

$$\tan \angle SFO = \frac{28.56}{15}$$

$$\boxed{\angle SFO = 62.29^\circ}$$

. 62.29°

.SE

,SAB

ΔSEO

$$\cos \angle SEO = \frac{EO}{SE}$$

$$\cos 55^\circ = \frac{20}{SE}$$

$$SE = \frac{20}{\cos 55^\circ}$$

$$SE = 34.87$$

. " 34.87 SAB

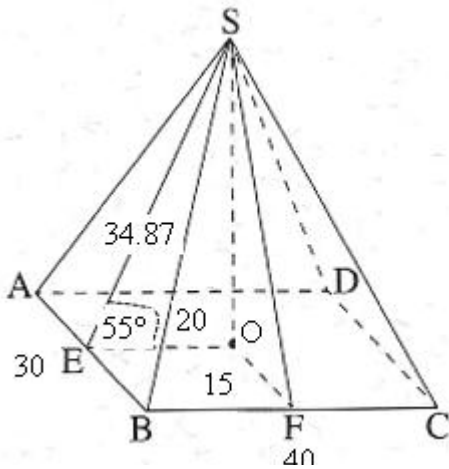
.SE

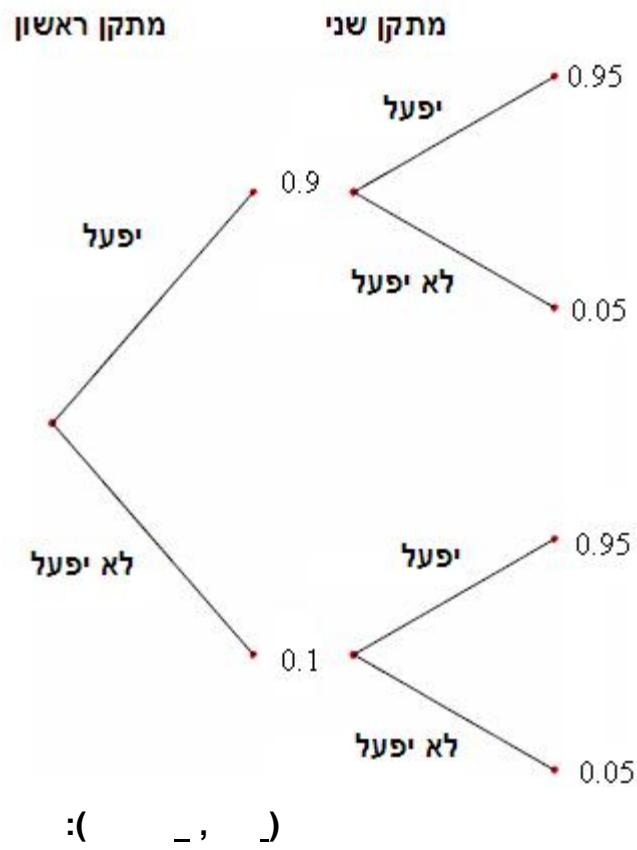
AB

SAB

$$S_{\Delta SAB} = \frac{AB \cdot SE}{2} = \frac{30 \cdot 34.87}{2} = 523.03$$

. " 523.03 SAB





$$P = 0.9 \cdot 0.05 + 0.1 \cdot 0.95 = 0.14$$

. 0.14 :

$$P = 1 - 0.1 \cdot 0.05 = 0.995$$

. 0.995 :

.70

69%  $s = 6$

.70 -

100% - 69% = 31%

$.0.5\% + 1.5\% + 5\% + 9\% + 15\% = 31\%$

70 ,

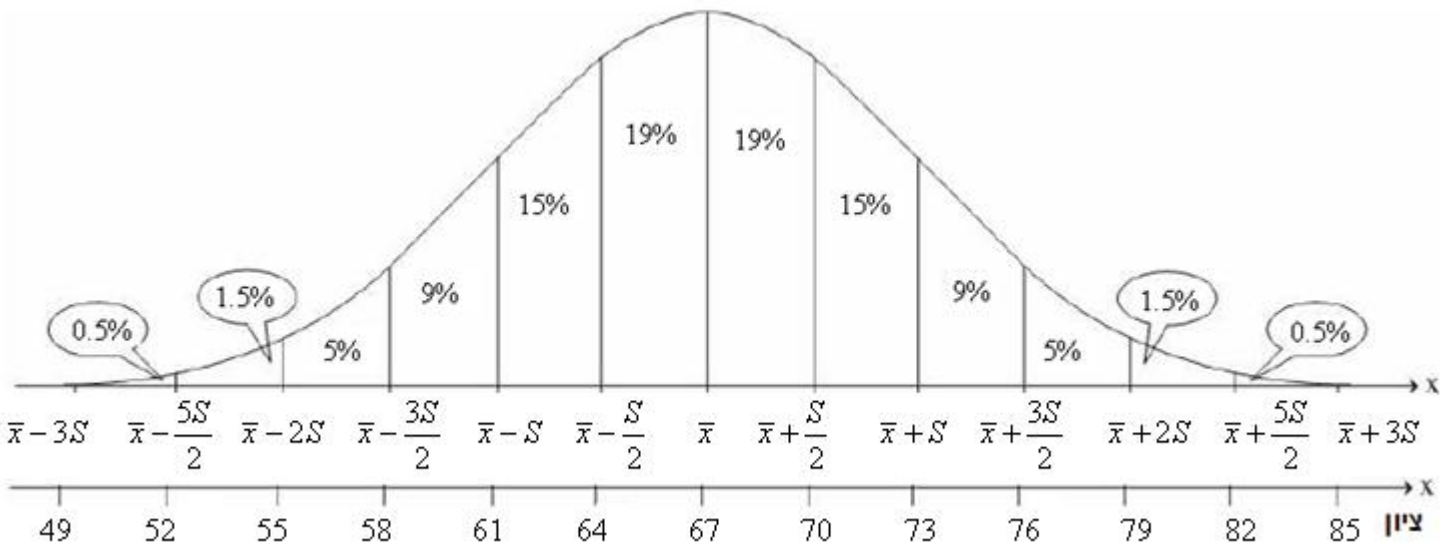
$\bar{x} = 70 - 3 = 67 - \frac{6}{2} = 3$

s = 6 -

.67 :

.3

$\bar{x} = 67$   $s = 6$



$.5\% + 9\% + 15\% + 19\% + 19\% = 67\%$      70 - 55

$\cdot \frac{67}{100} = 0.67$

.0.67 :

. 70 - 55

63,650 .

$\cdot n = \frac{63,650}{0.67} = 95,000 -$

$0.67 \cdot n = 63,650 -$  ,

n ,

.95,000

:

7%

$\frac{7}{100} = 7\%$  .

$\cdot 0.5\% + 1.5\% + 5\% = 7\%$

55

. 56 :