

. y -

$$, y = -x^2 + x + 2 \quad x = 0$$

$$. y = -0^2 + 0 + 2 = 2 \rightarrow \boxed{A(0,2)}$$

. A(0,2) :

. C - B

$$, y = -10 \quad (1)$$

$$-10 = -x^2 + x + 2$$

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

$$x_{1,2} = \frac{-(-1) \pm \sqrt{(-1)^2 - 4 \cdot 1 \cdot (-12)}}{2 \cdot 1}$$

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

$$x_1 = \frac{1+7}{2} = \frac{8}{2} = 4 \rightarrow \boxed{B(4, -10)}$$

$$x_2 = \frac{1-7}{2} = \frac{-6}{2} = -3 \rightarrow \boxed{C(-3, -10)}$$

. C(-3, -10) , B(4, -10) :

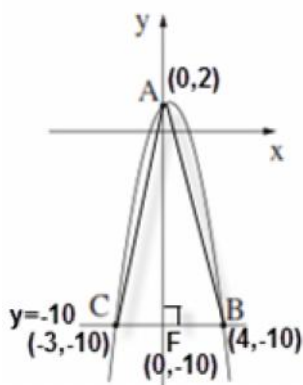
$$. BC = x_B - x_C = 4 - (-3) = 7 : , x - \quad BC \quad (2)$$

$$1. BC = 7 :$$

$$AF = y_A - y_F = 2 - (-10) = 12 \quad (3)$$

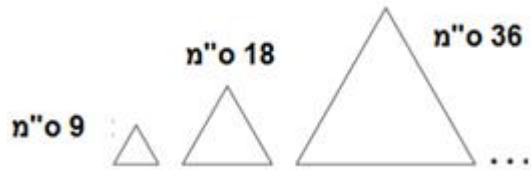
$$S_{\triangle ABC} = \frac{BC \cdot AF}{2} = \frac{7 \cdot 12}{2} = 42$$

$$11. " \quad 142 \quad 1ABC1 \quad :$$



\cdot " 6
 $\cdot 6 \cdot 3 =$ " 18
 \cdot " 18

\cdot " 3
 \cdot " $3 \cdot 3 =$ " 9
 \cdot " 9



$$\cdot \frac{18}{9} = 2$$

$\cdot q = 2, a_1 = 9$

$$\cdot a_n = a_1 q^{n-1} :$$

$$a_7 = a_1 \cdot q^{7-1}$$

$$a_7 = 9 \cdot 2^6$$

$$\boxed{a_7 = 576}$$

\cdot " 576

$$\cdot a_1 = 9, q = 2, n = 7$$

$$\cdot S_n = \frac{a_1(q^n - 1)}{q - 1}$$

$$S_7 = \frac{9 \cdot (2^7 - 1)}{2 - 1}$$

$$S_7 = \frac{1143}{1}$$

$$\boxed{S_7 = 1,143}$$

\cdot " 1,143

110,000 - I

9% - I

:

$$q = \frac{100-9}{100} = \frac{91}{100} = 0.91$$

4 I

$$M_4 = 110,000 \cdot 0.91^4$$

$$M_4 \approx 75,432$$

M_t	M_0	q	t
?	110,000	0.91	4

75,432 - 4 I :

109,350 II

10% - II

:

$$q = \frac{100-10}{100} = \frac{90}{100} = 0.9$$

M_t	M_0	q	t
109,350	150,000	0.9	?

$$150,000 \cdot 0.9^t = 109,350$$

t

$$150,000 \cdot 0.9^1 = 135,000 \neq 109,350$$

$$150,000 \cdot 0.9^2 = 121,500 \neq 109,350$$

$$150,000 \cdot 0.9^3 = 109,350 \text{ o.k.}$$

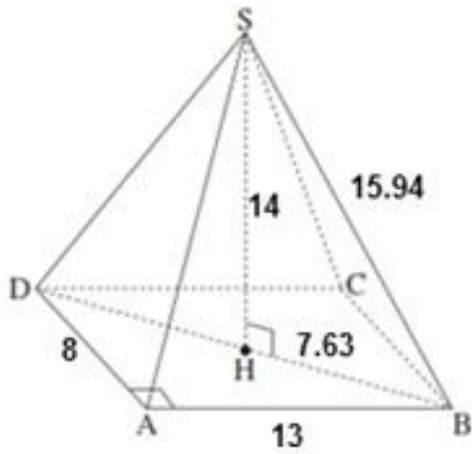
109,350 II 3 :

8 64,570

I - $110,000 \cdot 0.91^8 \approx 51,728$ not o.k.

II - $150,000 \cdot 0.9^8 \approx 64,570$ o.k.

8 64,570 II :



ΔABD

$$BD^2 = AB^2 + AD^2$$

$$BD^2 = 13^2 + 8^2$$

$$BD = \sqrt{233}$$

$$BD = \text{ " } 15.26$$

$$\text{ " } 15.26$$

$$\text{.HB} = 15.26 : 2 = \text{ " } 7.63$$

$$\text{.} \sphericalangle \text{SHD} = 90^\circ$$

ΔSHB

$$SB^2 = SH^2 + HB^2$$

$$SB^2 = 14^2 + 7.63^2$$

$$SB = \sqrt{254.2}$$

$$SB = \text{ " } 15.94$$

$$\text{. " } 15.94 \quad \text{SB}$$

$$\text{, } \sphericalangle \text{SBH} \quad \text{ - }$$

$$\text{.HB} \quad \text{ , } \quad \text{ , }$$

ΔSHB

$$\sin \sphericalangle \text{SBH} = \frac{SH}{SB}$$

$$\sin \sphericalangle \text{SBH} = \frac{14}{15.94}$$

$$\boxed{\sphericalangle \text{SBH} = 61.44^\circ}$$

$$\text{. } 61.44$$

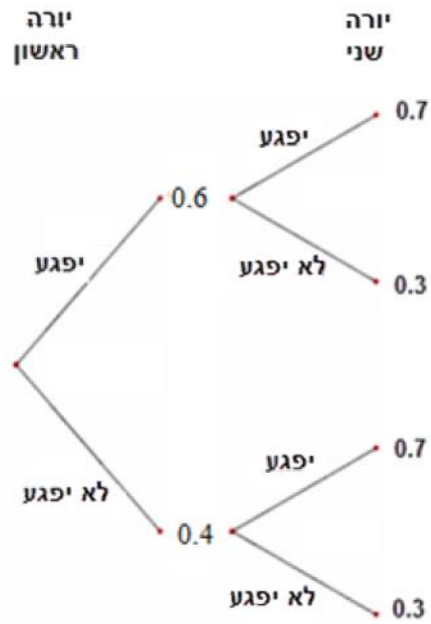
. 0.4

,0.6

.0.3

,0.7

:



:

$$P = 0.6 \cdot 0.7 = 0.42$$

.0.42 :

:

$$P = 0.4 \cdot 0.3 = 0.12$$

.0.12 :

:

$$P = 0.6 \cdot 0.7 + 0.6 \cdot 0.3 + 0.4 \cdot 0.7 = 0.88$$

:() "

"

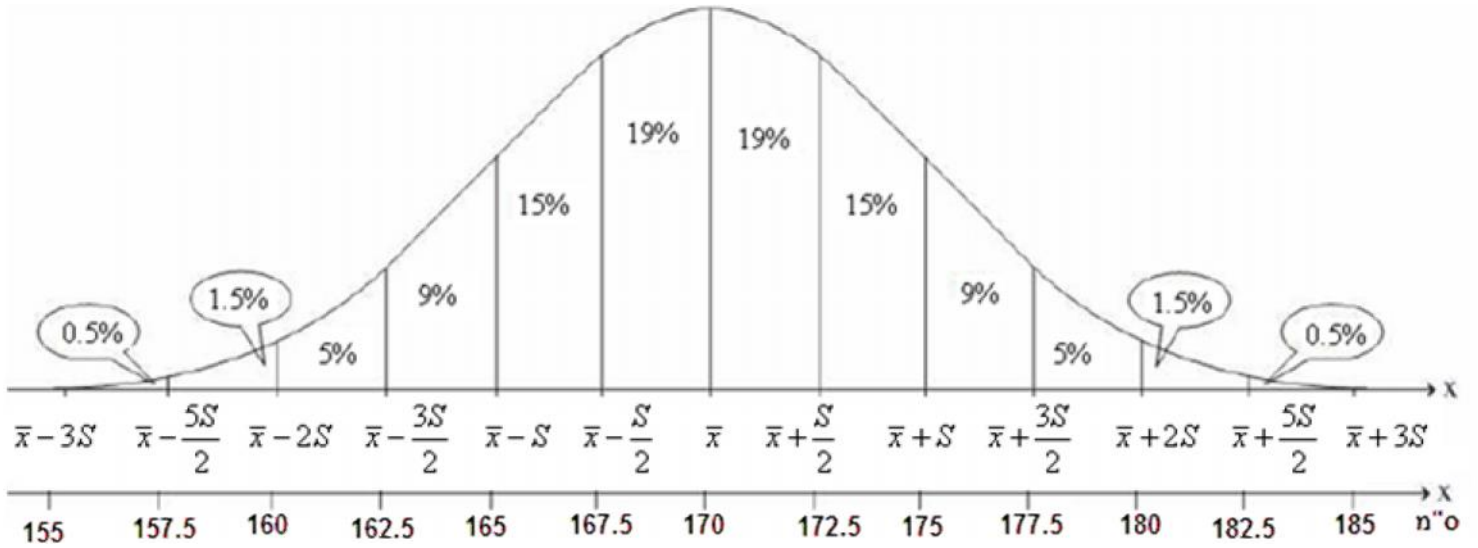
$$P = 1 - 0.12 = 0.88$$

.0.88 :

"

$\bar{x} = 170 \quad s = 5$

$\frac{5}{2} = 2.5$



" 165

$.0.5\% + 1.5\% + 5\% + 9\% = 16\%$

" 165 - 16% :

800

$. 16\% \cdot 800 = 0.16 \cdot 800 = 128$

" 165 - 128 - :

" 180 - " 160

$100\% - (0.5\% + 1.5\% + 0.5\% + 1.5\%) = 96\%$

$(. 5\% + 9\% + 15\% + 19\% + 19\% + 15\% + 9\% + 5\% = 96\%)$

$. 96\% \cdot 800 = 0.96 \cdot 800 = 768$

" 180 - " 160 768 - :