

$$y = -x^2 + 10x - 21$$

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

$$0 = -x^2 + 10x - 21$$

$$x_{1,2} = \frac{-10 \pm 4}{-2}$$

$$x_1 = \frac{-10 + 4}{-2} = \frac{-6}{-2} = 3 \rightarrow \boxed{A(3, 0)}$$

$$x_2 = \frac{-10 - 4}{-2} = \frac{-14}{-2} = 7 \rightarrow \boxed{B(7, 0)}$$

. B(7, 0) , A(3, 0) :

$$.D - C \quad y = -12 \quad (1) .$$

$$: y = -x^2 + 10x - 21 \quad y = -12$$

$$-12 = -x^2 + 10x - 21$$

$$0 = -x^2 + 10x - 9$$

$$x_{1,2} = \frac{-10 \pm 8}{-2}$$

$$x_1 = \frac{-10 + 8}{-2} = \frac{-2}{-2} = 1 \rightarrow \boxed{D(1, -12)}$$

$$x_2 = \frac{-10 - 8}{-2} = \frac{-18}{-2} = 9 \rightarrow \boxed{C(9, -12)}$$

.D(1, -12) , C(9, -12) :

$$: x - \quad , x - \quad , CD \quad (2)$$

$$CD = x_C - x_D = 9 - 1 = 8$$

.8 CD :

$$: \quad , ABCD \quad (3)$$

$$S = \frac{(CD + AB)h}{2}$$

$$AB = x_B - x_A = 7 - 3 = 4$$

$$h = 0 - (-12) = 12$$

$$S = \frac{(8 + 4) \cdot 12}{2} = 72$$

. " 72 ABCD :

110,000 - I

8% - I

:

$$q = \frac{100 - 8}{100} = \frac{92}{100} = 0.92$$

4 I

$$M_4 = 110,000 \cdot 0.92^4$$

$$M_4 \approx 78,803$$

M_t	M_0	q	t
?	110,000	0.92	4

78,803 -

4 I

:

98,415 II

10% - II

:

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

M_t	M_0	q	t
98,415	150,000	0.9	?

$$150,000 \cdot 0.9^t = 98,415$$

t

$$150,000 \cdot 0.9^1 = 135,000 \neq 98,415$$

$$150,000 \cdot 0.9^2 = 121,500 \neq 98,415$$

$$150,000 \cdot 0.9^3 = 109,350 \neq 98,415$$

$$150,000 \cdot 0.9^t = 98,415 \text{ o.k.}$$

98,415 II

4

:

9

58,113

$$\text{I} - 110,000 \cdot 0.92^9 \approx 51,938 \text{ not o.k.}$$

$$\text{II} - 150,000 \cdot 0.9^9 \approx 58,113 \text{ o.k.}$$

9

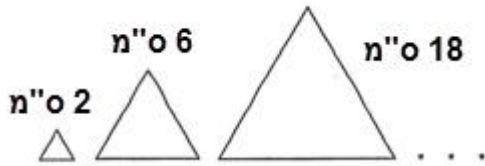
58,113

II

:

"

$$\begin{aligned}
 & \cdot 6 \cdot 3 = \cdot 18 \\
 & \cdot 18 \cdot 3 = \cdot 54 \\
 & \cdot \frac{6}{2} = 3
 \end{aligned}$$



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

$$q = 3 - a_1 = 2 .$$

$$a_7 = a_1 \cdot q^6$$

$$a_7 = 2 \cdot 3^6$$

$$\boxed{a_7 = 1,458}$$

$$\cdot 1,458$$

$$a_1 = 2, q = 3, n = 7$$

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

$$S_7 = \frac{2 \cdot (3^7 - 1)}{3 - 1}$$

$$S_7 = \frac{4372}{2}$$

$$\boxed{S_7 = 2,186}$$

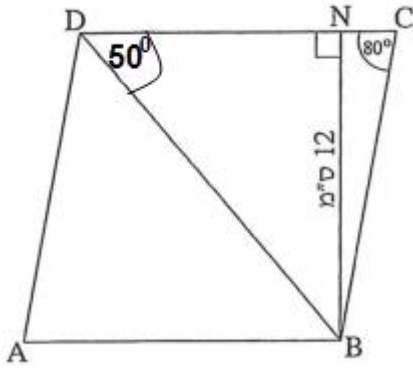
$$2,186$$

$$\cdot 2,186 \cdot 3 = \cdot 6,558 :$$

$$\cdot 6,558$$

$$7$$

$$:$$



∴ " 12.19

ΔCNB

$$\sin 80^\circ = \frac{12}{CB}$$

$$CB \sin 80^\circ = 12$$

$$CB = \frac{12}{\sin 80^\circ}$$

$$\boxed{CB = 12.19 \text{ cm}}$$

:

(CB = CD)

ΔCBD ,

$$\angle CDB = \frac{180 - 80}{2} = \frac{100}{2} = 50^\circ$$

∴ ∠CDB = 50° :

∴ BD

ΔDNB

$$\sin 50^\circ = \frac{12}{BD}$$

$$BD \sin 50^\circ = 12$$

$$BD = \frac{12}{\sin 50^\circ}$$

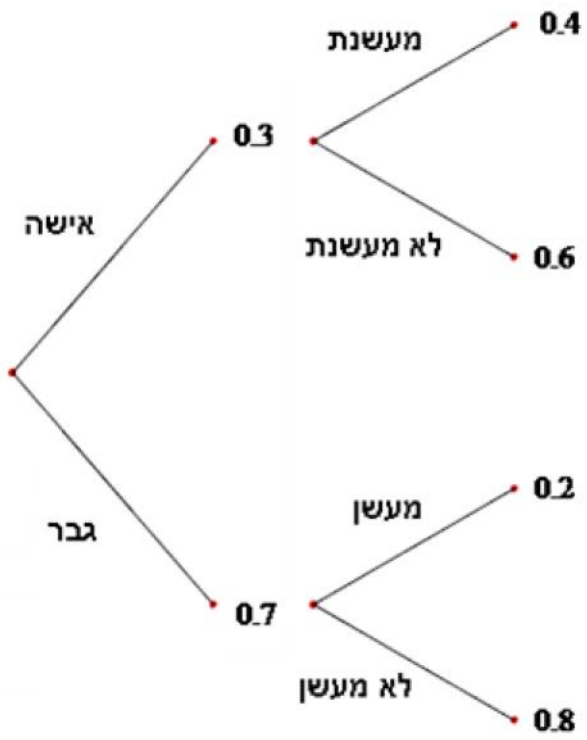
$$\boxed{BD = 15.66 \text{ cm}}$$

∴ " 15.66 BD

:

: -
 () .1
 , .2
 ,

/ ,
 .(, 100 -)



:

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

. 0.12 :

: () .

. , :

$$P = 0.7 \cdot 0.8 + 0.3 \cdot 0.6 = 0.74$$

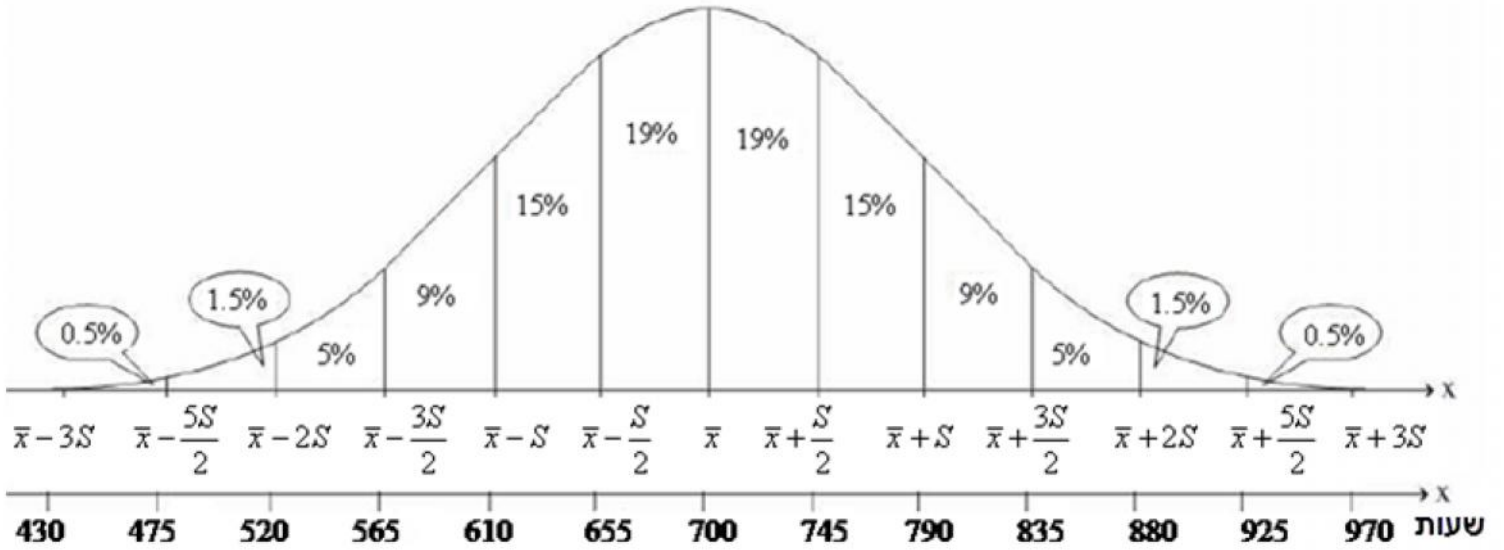
. 0.74 :

"

$\bar{x} = 700$ $s = 90$

$\frac{90}{2} = 45$

90



610

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

610 -

16% :

880

$.1.5\% + 0.5\% = 2\%$

880 -

2% :

880 - 610

$. (15\% + 19\% + 19\% + 15\% + 9\% + 5\% = 82\%) 100\% - (16\% + 2\%) = 82\% -$

$\frac{82}{100} = 0.82$

.0.82

880 -

610 -

: