

$y = 0$ $x =$

$y = x^2 + 2x - 3$

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

$x_{1,2} = \frac{-2 \pm \sqrt{2^2 - 4 \cdot 1 \cdot (-3)}}{2 \cdot 1}$

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

$x_1 = \frac{-2 + 4}{2} = \frac{2}{2} = 1 \rightarrow \boxed{C(1, 0)}$

$x_2 = \frac{-2 - 4}{2} = \frac{-6}{2} = -3 \rightarrow \boxed{A(-3, 0)}$

$x = 0$ $y =$

$y = 0^2 + 2 \cdot 0 - 3 = -3 \rightarrow \boxed{B(0, -3)}$

$B(0, -3)$, $A(-3, 0)$, $C(1, 0)$:

$y = -(-3) - 3 = 0 = y_A$: $y = -x - 3$

$x = -3$ $A(-3, 0)$

$y = -x - 3$

$A(-3, 0)$

? $y = 0 - 3 = -3 = y_B$ \parallel $y = -x - 3$

$1x = 0$ $1B(0, -3)$

$y = -x - 3$

$B(0, -3)$

· :

$, 0 - -3$

$x = -2$,

· AB

· () ,

· AB

_____ , $x = -2$,

:

$$, +200 \quad ,$$

$$\frac{\quad}{200}$$

$$. d = 200 - a_1 = 1500 ,$$

$$. a_6 \quad , 6 -$$

$$. d = 200 - a_1 = 1500 \quad ,$$

$$a_n = a_1 + (n-1)d$$

$$a_6 = 1500 + (6-1) \cdot 200$$

$$a_6 = 1500 + 5 \cdot 200$$

$$a_6 = 1500 + 1000$$

$$\boxed{a_6 = 2500}$$

$$. 6 - \quad 2,500 \quad :$$

$$. S_{12} \quad , \quad 12 -$$

$$S_n = \frac{n[2a_1 + d(n-1)]}{2}$$

$$S_{12} = \frac{12[2 \cdot 1500 + 200 \cdot (12-1)]}{2}$$

$$S_{12} = 6 \cdot (3000 + 2200)$$

$$S_{12} = 6 \cdot 5200$$

$$\boxed{S_{12} = 31200}$$

$$. \quad 12 - \quad 31,200 \quad :$$

10

$$. 31,200 \cdot 10 = \quad 312,000 : \quad 12 -$$

$$. \quad 12 - \quad 312,000 \quad :$$

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

$q = \frac{100 - P}{100}$: , () P
 .t .q ()
 . t - M_t , - M_0

. 300,000 .

$$q = \frac{100 - 12}{100} = \frac{88}{100} = 0.88 : , 12\% -$$

. 2 ,

M_t	M_0	q	t
?	300,000	0.88	2

$$M_2 = 300,000 \cdot 0.88^2$$

$$M_2 = 232,320$$

. 232,320 :

. 12 (1)

M_t	M_0	q	t
?	300,000	0.88	12

$$M_{12} = 300,000 \cdot 0.88^{12}$$

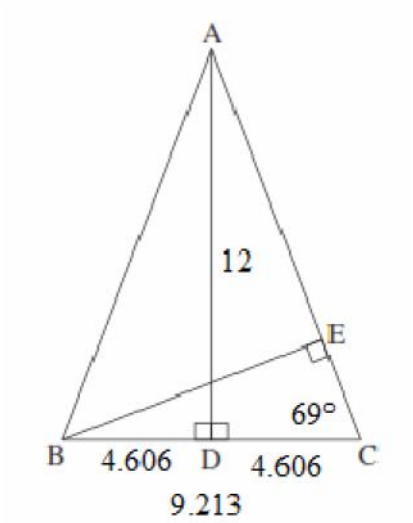
$$M_{12} \approx 64,701.35$$

. 64,701.35 12 :

. , 65,000 (2)

:

BD = DC , BC AD , (AB = AC) ABC .
 . $\angle C = 69^\circ$, , ,



$\triangle ADC$

$$\tan \angle C = \frac{AD}{DC}$$

$$\tan 69^\circ = \frac{12}{DC} \quad / \cdot DC$$

$$DC \tan 69^\circ = 12 \quad / : \tan 69^\circ$$

$$DC = \frac{12}{\tan 69^\circ}$$

$$DC = 4.606 \text{ "}$$

$$BC = 2 \cdot DC = 2 \cdot 4.606 = \text{" } 9.213$$

. " 9.213 BC :

. AC , BE .

$\triangle BEC$

$$\sin \angle C = \frac{BE}{BC}$$

$$\sin 69^\circ = \frac{BE}{9.213} \quad / \cdot 9.213$$

$$9.213 \sin 69^\circ = BE$$

$$BE = \text{" } 8.601$$

. " 8.601 , AC , BE :

. 76 , 77 , 78 , 83 , 86 :

$$\bar{x} = \frac{76 \cdot 1 + 77 \cdot 1 + 78 \cdot 1 + 83 \cdot 1 + 86 \cdot 1}{5} = \frac{400}{5} = 80 :$$

:

$$S = \sqrt{\frac{(76-80)^2 \cdot 1 + (77-80)^2 \cdot 1 + (78-80)^2 \cdot 1 + (83-80)^2 \cdot 1 + (86-80)^2 \cdot 1}{5}}$$

$$S = \sqrt{\frac{16+9+4+9+36}{5}} = \sqrt{\frac{74}{5}} = \sqrt{14.8}$$

$$\boxed{S = 3.847}$$

.3.847 , 80 :

1.

- , (1) .

.80 1,80

.80 :

, , (2)

. :

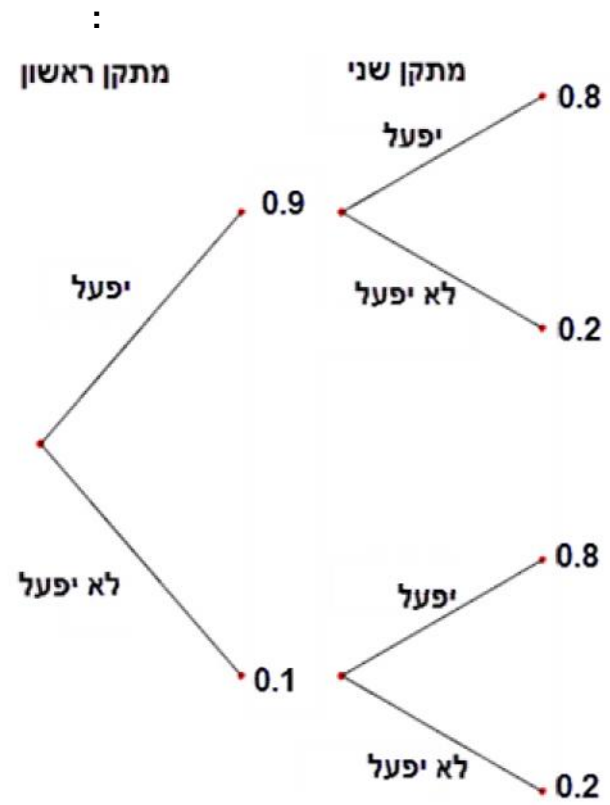
.80 1,80

$$S = \sqrt{\frac{(76-80)^2 \cdot 1 + (77-80)^2 \cdot 1 + (78-80)^2 \cdot 1 + (83-80)^2 \cdot 1 + (86-80)^2 \cdot 1 + (80-80)^2 \cdot 1}{6}}$$

$$S = \sqrt{\frac{16+9+4+9+36+0}{6}} = \sqrt{\frac{74}{6}} = \sqrt{12.33}$$

$$\boxed{S = 3.512}$$

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:

$$P = 0.9 \cdot 0.2 = 0.18$$

. 0.18 :

."

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":

$$P = 0.9 \cdot 0.2 + 0.1 \cdot 0.8 = 0.26$$

. 0.26 :

."

"

$$P = 1 - 0.2 \cdot 0.1 = 0.98$$

. 0.98 :

"