

$y = 0$ $x =$

$x = 0$ $y =$

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

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

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

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

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

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

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

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

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

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

$\cdot y = -x - 3$

$A(-3, 0)$

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

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

$\cdot y = -x - 3$

$B(0, -3)$

· :

· AB

$, 0 - -3$

$x = -2$,

,

· AB

, $x = -2$,

:

35802

17

780

30

$$780 : 30 = 26$$

26

:

+2

20

2

$$d = 2 \quad a_1 = 20 :$$

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

$$780 = \frac{n[2 \cdot 20 + 2 \cdot (n-1)]}{2} \quad / \cdot 2$$

$$1560 = n[40 + 2 \cdot (n-1)] \quad / \cdot 2$$

$$1560 = n(40 + 2n - 2)$$

$$1560 = n(38 + 2n)$$

$$1560 = 38n + 2n^2$$

$$0 = 2n^2 + 38n - 1560$$

$$n_{1,2} = \frac{-38 \pm 118}{2 \cdot 2}$$

$$n_1 = \frac{-38 + 118}{4} = \frac{80}{4} = 20$$

$$n_2 = \frac{-38 - 118}{4} = \frac{-156}{4} = -39 \quad \leftarrow n > 0$$

20

:

26

20

6

:

:

0 , 120,000 (1)

120,000 :

4 , 78,732 4 (2)

78,732 4 :

78,732 4 120,000

M_t	M_0	q	t
78,732	120,000	?	4

$78,732 = 120,000 \cdot q^4 \quad / : 120,000$

$\frac{78,732}{120,000} = q^4$

$0.6561 = q^4$

$q = \sqrt[4]{0.6561}$

$q = 0.9$

$0.9 = \frac{100 - P}{100} \quad / \cdot 100$

$\Leftrightarrow 90 = 100 - P$

$\Leftrightarrow P = 10\%$

. 10% - :

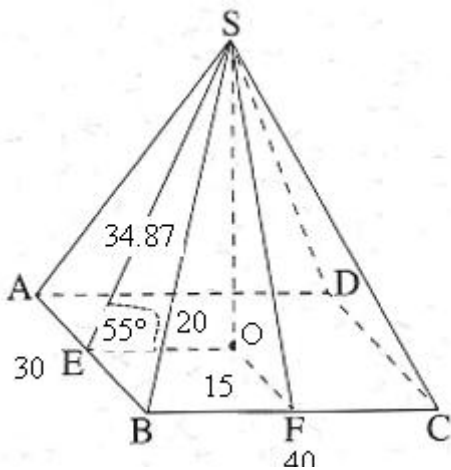
6

M_t	M_0	q	t
?	120,000	0.9	6

$M_6 = 120,000 \cdot 0.9^6$

$M_6 = 63,773$

. 63,773 :



.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

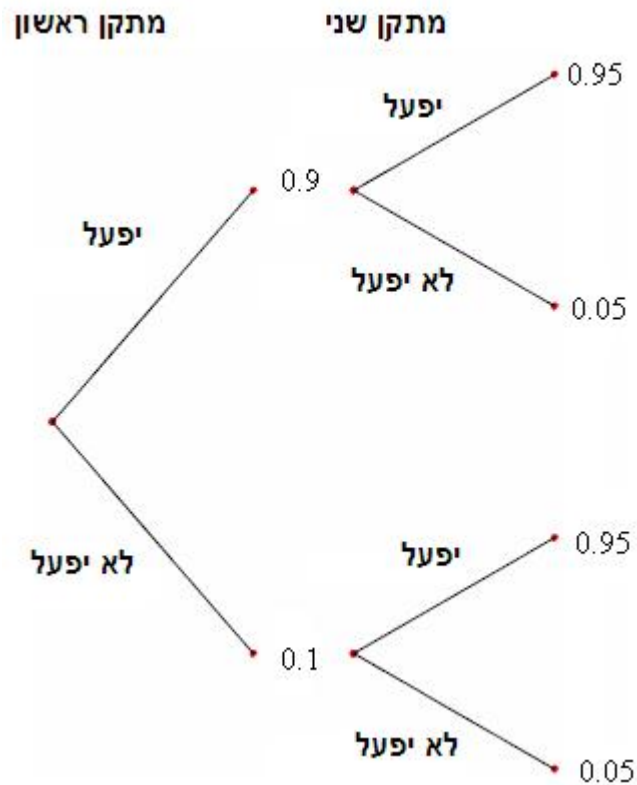
AB

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 :

90	80	70	60	
1	11	x	7	

$$N = f_1 + f_2 + \dots + f_n :$$

$$N = 7 + x + 11 + 1$$

$$N = 19 + x$$

.72.5

$$\bar{x} = \frac{x_1 f_1 + x_2 f_2 + \dots + x_n f_n}{N} :$$

$$72.5 = \frac{60 \cdot 7 + 70 \cdot x + 80 \cdot 11 + 90 \cdot 1}{19 + x} \quad / \cdot (19 + x)$$

$$72.5(19 + x) = 1390 + 70x$$

$$1377.5 + 72.5x = 1390 + 70x$$

$$2.5x = 12.5 \quad / : 2.5$$

$$x = \frac{12.5}{2.5}$$

$$\boxed{x = 5}$$

.x = 5 :

. 80 ,

.80 :

$$. 1 + 11 + 5 + 7 = 24$$

.24 :

: .

90	80	70	60	
1	11	5	7	
24	23	12	7	

$$\frac{n}{2} = \frac{24}{2} = 12 : ,$$

,13 - 12 -

$$\frac{70+80}{2} = 75 :$$

. 75 :

$$. 11+1=12$$

80 .

$$. \frac{12}{24} = 0.5$$

80 ,

. 0.5 :