

$$y = -x^2 - 2x + 8$$

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

$$0 = -x^2 - 2x + 8$$

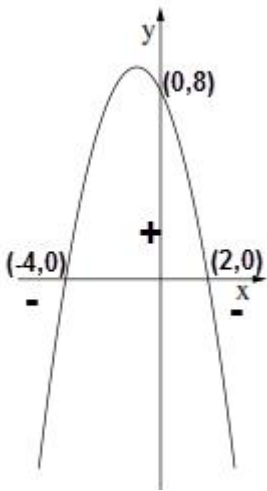
$$x_{1,2} = \frac{-(-2) \pm \sqrt{(-2)^2 - 4 \cdot (-1) \cdot 8}}{2 \cdot (-1)}$$

$$x_{1,2} = \frac{2 \pm 6}{-2}$$

$$x_1 = \frac{2+6}{-2} = \frac{8}{-2} = -4 \rightarrow \boxed{(-4, 0)}$$

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

. (-4, 0), (2, 0) :



. 2 - -4

, x -

$$. y = -1^2 - 2 \cdot 1 + 8 = 5 :$$

$$. x = 1 \quad :$$

. 5

$$, x = 1 : \quad :$$

. 2 - -4 x - ,

$$. -4 < x < 2 :$$

$$. y = -x^2 - 2x + 8$$

$$y = 8$$

$$8 = -x^2 - 2x + 8$$

$$1 \quad x^2 - 2x = 0$$

$$x(x-2) = 0$$

$$x = 0, \quad x = 2$$

, :

:

$$1(0, 8)$$

$$, c = 8$$

$$, y = -x^2 - 2x + 8$$

" " •

. 8 -

,

•

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

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

. 500,000 .

$$q = \frac{100 + 2}{100} = \frac{102}{100} = 1.02 : , 2\% -$$

. 530,604

M_t	M_0	q	t
530,604	500,000	1.02	?

$530,604 = 500,000 \cdot 1.02^t$
 $500,000 \cdot 1.02^1 = 510,000$
 $500,000 \cdot 1.02^2 = 520,200$
 $500,000 \cdot 1.02^3 = 530,604 \text{ o.k.}$

. 530,604 3 :

, 10,000 -

$$. 500,000 + 3 \cdot 10,000 = 530,000 3$$

. 530,604 - _____ 3 :

, +2

2

$$d = 2 - a_1 = 1,$$

$$a_9 = 17$$

$$d = 2 - a_1 = 1,$$

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

$$a_9 = 1 + (9-1) \cdot 2$$

$$a_9 = 1 + 8 \cdot 2$$

$$a_9 = 1 + 16$$

$$\boxed{a_9 = 17}$$

17

$$S_9 = 9 \cdot 17$$

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

$$S_9 = \frac{9[2 \cdot 1 + 2 \cdot (9-1)]}{2}$$

$$S_9 = \frac{9 \cdot (2+16)}{2}$$

$$S_9 = \frac{162}{2}$$

$$\boxed{S_9 = 81}$$

81

324

$$324 = \frac{n[2 \cdot 1 + 2 \cdot (n-1)]}{2} \quad / \cdot 2$$

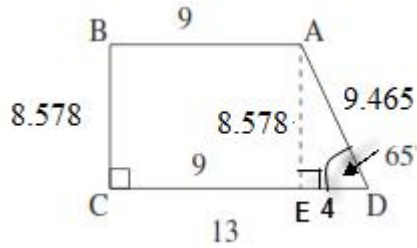
$$648 = n(2 + 2n - 2)$$

$$648 = 2n^2 \quad / : 2$$

$$324 = n^2$$

$$\boxed{n = 18} \quad \leftarrow n > 0$$

18



$$DE = 13 - 9 = 4, CE = AB = 9 :$$

$\triangle ADE$

$$\cos 65^\circ = \frac{DE}{AD}$$

$$\cos 65^\circ = \frac{4}{AD} \quad / \cdot AD$$

$$AD \cos 65^\circ = 4 \quad / : \cos 65^\circ$$

$$AD = \frac{4}{\cos 65^\circ}$$

$$AD = 9.465$$

$\triangle ADE$

$\triangle ADE$

$$\tan 65^\circ = \frac{AE}{DE}$$

$$\tan 65^\circ = \frac{AE}{4} \quad / \cdot 4$$

$$4 \tan 65^\circ = AE$$

$$AE = 8.578$$

$$BC = AE = 8.578$$

$$8.578 + 9 + 9.465 + 13 = 40.04 :$$

$$= 40.04 :$$

$$S_{ABCD} = \frac{(AB + DC) \cdot AE}{2} = \frac{(9 + 13) \cdot 8.578}{2} = 94.36 :$$

$$= 94.36 :$$

$$.1 - 0.8 = 0.2$$

$$,0.8$$

$$.1 - 0.6 = 0.4$$

$$,0.6$$

$$.1 - 0.7 = 0.3$$

$$,0.7$$

$$.P = 0.8 \cdot 0.6 \cdot 0.7 = 0.336 :$$

$$. 0.336 :$$

$$.P = 0.2 \cdot 0.4 \cdot 0.3 = 0.024 :$$

$$. 0.024 :$$

$$1 -$$

$$.(\quad)$$

$$P = 1 - 0.024 = 0.976$$

$$. 0.976 :$$

(1)

180 - 16%
 , 200 - 16%

$$\frac{180+200}{2} = \frac{380}{2} = 190$$

190

:

$$.05\% + 1.5\% + 5\% + 9\% = 16\%$$

(2)

190

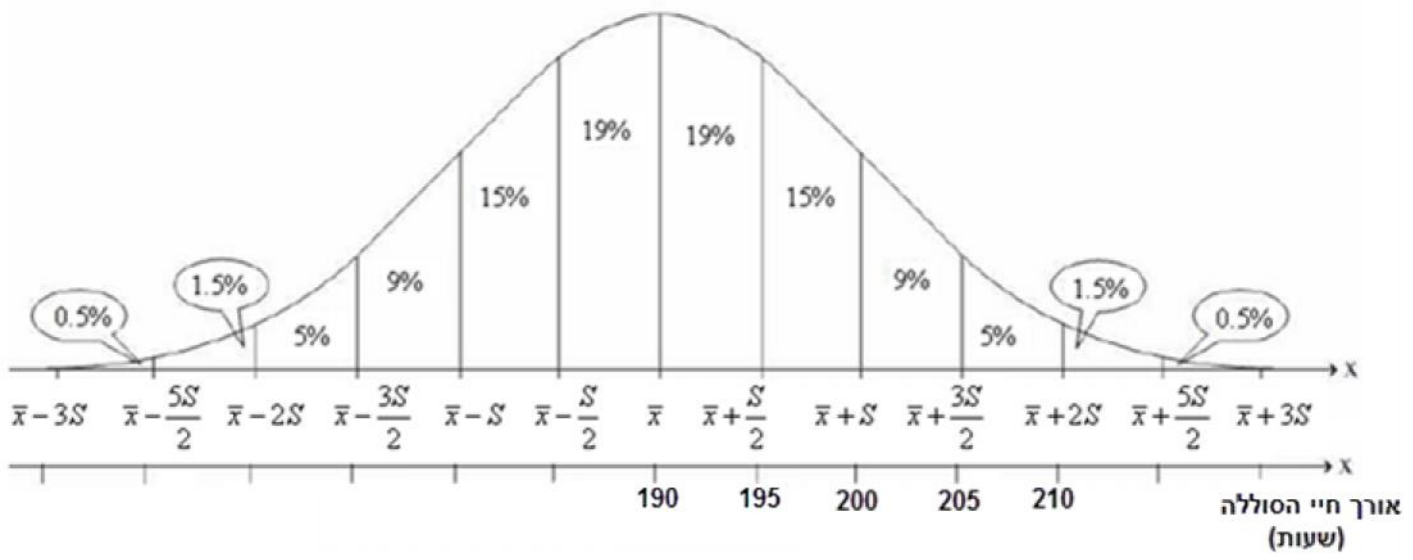
180

$$.190 - 180 = 10 :$$

10

:

$$\frac{S}{2} = \frac{10}{2} = 5$$



$$\frac{2}{100} = 0.02$$

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

210 -

.0.02

: