

$$f(x) = (x+3)(x-5)$$

$$f(x) = x^2 - 5x + 3x - 15$$

$$\boxed{f(x) = x^2 - 2x - 15}$$

$$x = 0 \quad y =$$

$$(0, -15)$$

$$y = 0^2 - 2 \cdot 0 - 15 = -15,$$

$$, \quad , y = 0 \quad x =$$

$$0 = x^2 - 2x - 15$$

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

$$x_1 = \frac{2+8}{2} = \frac{10}{2} = 5 \quad \rightarrow (5, 0)$$

$$x_2 = \frac{2-8}{2} = \frac{-6}{2} = -3 \quad \rightarrow (-3, 0)$$

$$\cdot (-3, 0), (5, 0), (0, -15):$$

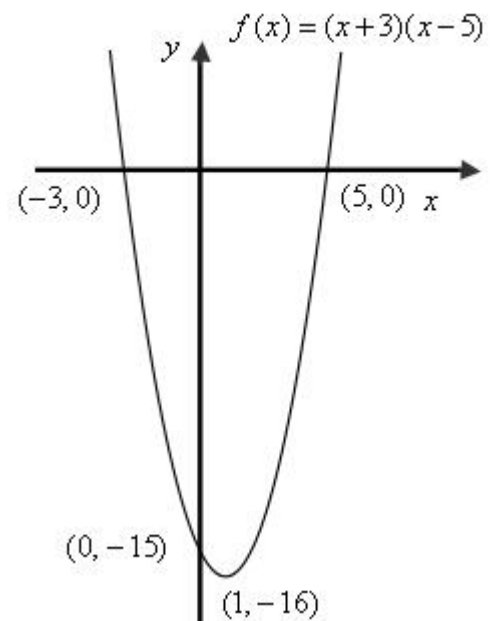
$$x = -\frac{b}{2a} :$$

$$x =$$

$$x = -\frac{-2}{2} = 1$$

$$f(1) = 1^2 - 2 \cdot 1 - 15 = -16 :$$

$$\cdot (1, -16) :$$



(1) .

. : , 581 -

$$a_8 = a_1 + 581$$

$$a_1 + 7d = a_1 + 581$$

$$7d = 581 \quad /:7$$

$$\boxed{d = 83}$$

. 83 :
1743 (2)

$$a_6 + a_7 = 1743$$

$$a_1 + 5d + a_1 + 6d = 1743$$

$$2a_1 + 11d = 1743$$

$$2a_1 + 11 \cdot 83 = 1743$$

$$2a_1 + 913 = 1743$$

$$2a_1 = 830 \quad /:2$$

$$\boxed{a_1 = 415}$$

. 415 :
• S_{12} , 12 -

$$S_{12} = \frac{12[2 \cdot 415 + 83(12-1)]}{2}$$

$$S_{12} = 6 \cdot (830 + 83 \cdot 11)$$

$$S_{12} = 6 \cdot 1743$$

$$\boxed{S_{12} = 10,458}$$

. 10,458 :

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

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

. 1.2% -

$$q = \frac{100+1.2}{100} = \frac{101.2}{100} = 1.012$$

. 21.3
 . 30 , 2020

M_t	M_0	q	t
?	21.3	1.012	30

$$M_{30} = 21.3 \cdot 1.012^{30}$$

$$M_{30} = 30.46$$

. 30.46 - 2020 :

. 21.3
 .1990 10 , 1980

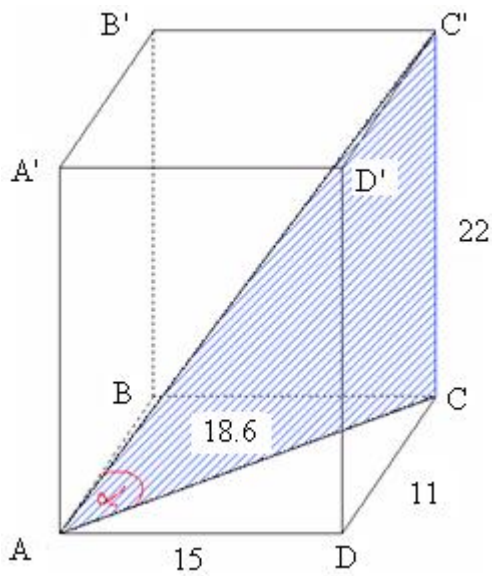
M_t	M_0	q	t
21.3	?	1.012	10

$$21.3 = M_0 \cdot 1.012^{10}$$

$$\frac{21.3}{1.012^{10}} = M_0$$

$$M_0 = 18.9$$

. 18.9 - 1980 :



ABCD

: $\triangle ACD$ -

$$(AC)^2 = (AD)^2 + (DC)^2$$

$$(AC)^2 = 15^2 + 11^2$$

$$AC = \sqrt{346}$$

$$\boxed{AC = 18.6}$$

$$AC = 18.6$$

ABCD AC'

C'AC

, C'AC

$$\angle C'CA = 90^\circ$$

$\triangle C'AC$

$$\tan r = \frac{22}{18.6}$$

$$\tan r = 1.1828$$

$$r = 49.79^\circ$$

$$r = 49.79^\circ$$

: $\triangle C'AC$ -

$$(AC')^2 = (AC)^2 + (CC')^2$$

$$(AC')^2 = 18.6^2 + 22^2$$

$$AC' = \sqrt{829.96}$$

$$\boxed{AC' = 28.81}$$

$$AC' = 28.81$$

$$, P(A) = P(B) = \frac{1}{2} :$$

$$. P(C) = \frac{1}{5} - P(D) = \frac{1}{3} ,$$

:

$$P(E, F) = P(E) \cdot P(F) = \frac{1}{2} \cdot \frac{1}{5} = \frac{1}{10}$$

$$\cdot \frac{1}{10}$$

:

:

$$P(G, H) = P(G) \cdot P(H) = \frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}$$

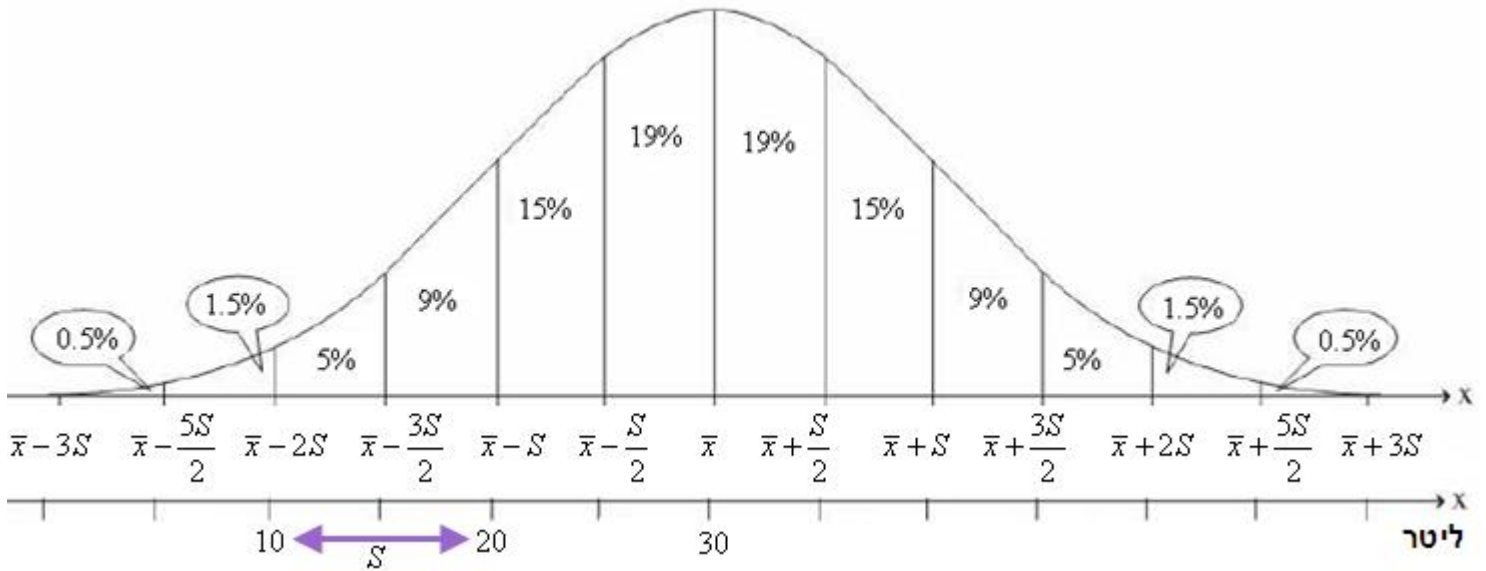
$$\cdot \frac{1}{6}$$

:

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

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

20 - 16% -
 ,
 20 ,
 10 - 2% -
 ,
 10 ,
 10 : _____



$. 10$

$. \bar{x} - 10 = 20 \rightarrow \bar{x} = 30 \quad S = 10 -$

$. 30 \quad 10 \quad :$

$\boxed{\bar{x} = 30} \quad \boxed{s = 10} :$

$, 30 , .50\% \quad 30 -$

$. 30 - 50\% :$