

$$f(x) = x^2 - 2x - 8$$

, $x = 0$ $y =$

$$f(0) = 0^2 - 2 \cdot 0 - 8 = -8 \rightarrow \boxed{(0, -8)} :$$

$\therefore f(x) = 0$ $x =$

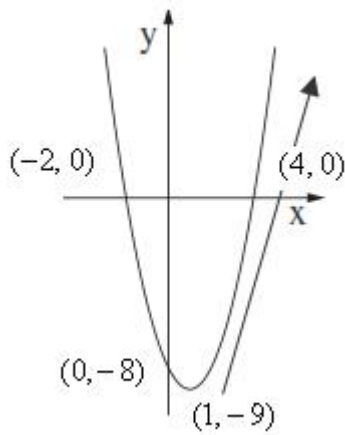
$$0 = x^2 - 2x - 8$$

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

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

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

$\therefore (-2, 0), (4, 0), (0, -8) :$



$$x_k = \frac{-b}{2a} = \frac{-(-2)}{2 \cdot 1} = \frac{2}{2} = 1$$

$$(1, -9) \quad y = 1^2 - 2 \cdot 1 - 8 = -9$$

$\therefore (1, -9) :$

$\therefore x > 1$,

$\therefore x > 1 :$

$$q = \frac{2}{3}$$

$$\frac{2}{3}$$

$$a_3 = 2368$$

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

$$a_1 q^{3-1} = 2368$$

$$a_1 \cdot \left(\frac{2}{3}\right)^2 = 2368 \quad /: \left(\frac{2}{3}\right)^2$$

$$a_1 = \frac{2368}{\left(\frac{2}{3}\right)^2}$$

$$\boxed{a_1 = 5,328}$$

$$5,328$$

1?

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

$$a_1 = 5,328, \quad q = \frac{2}{3}, \quad n = 8$$

$$S_8 = \frac{5,328 \cdot \left(\left(\frac{2}{3}\right)^8 - 1\right)}{\frac{2}{3} - 1}$$

$$S_8 = \frac{-5120.11}{-\frac{1}{3}}$$

$$\boxed{S_8 = 15,360.33}$$

$$15,360.33$$

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

t q ()

t - M_t , - M_0

$$q = \frac{100 - P}{100} : , () P$$

.11% -

$$q = \frac{100 - 11}{100} = \frac{89}{100} = 0.89$$

50,000

, 3 ,

. t = 3 - M_t = 50,000 , M_0

M _t	M ₀	q	t
50,000	?	0.89	3

$$50,000 = M_0 \cdot 0.89^3 \quad / : 0.89^3$$

$$\frac{50,000}{0.89^3} = M_0$$

$$M_0 \approx 70,925$$

. 70,925 :

. 4

, 4 ,

. t = 4 - M_0 = 50,000 , M_t

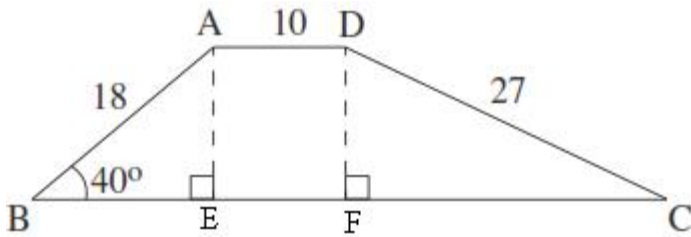
M _t	M ₀	q	t
?	50,000	0.89	4

$$M_t = 50,000 \cdot 0.89^4$$

$$M_t \approx 31,371$$

. 31,371 4 :

DF = AE



$\triangle ABE$

$$\sin \angle ABC = \frac{AE}{AB}$$

$$\sin 40^\circ = \frac{AE}{18}$$

$$18 \sin 40^\circ = AE$$

$$\boxed{AE = 11.57}$$

∴ " 11.57

:

∴ DF = " 11.57

ADFE

$\triangle DCF$

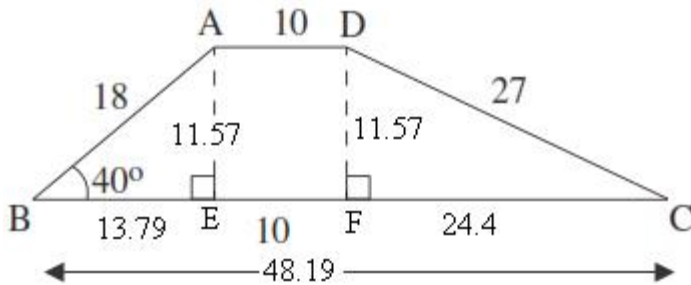
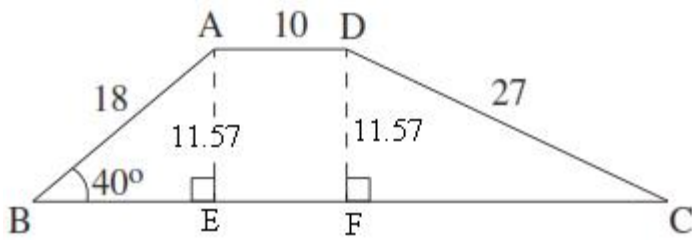
$$\sin \angle C = \frac{DF}{DC}$$

$$\sin \angle C = \frac{11.57}{27}$$

$$\boxed{\angle C = 25.37^\circ}$$

∴ 25.37° DCB

:



$\triangle ABE$

$$(AE)^2 + (BE)^2 = (AB)^2$$

$$11.57^2 + (BE)^2 = 18^2$$

$$(BE)^2 = 190.14$$

$$\boxed{BE = 13.79}$$

$\triangle DFC$

$$(DF)^2 + (CF)^2 = (DC)^2$$

$$11.57^2 + (CF)^2 = 27^2$$

$$(CF)^2 = 595.14$$

$$\boxed{CF = 24.4}$$

∴ EF = " 10

ADFE

" 48.19 :

$$S_{ABCD} = \frac{(AD + BC) \cdot AE}{2} = \frac{(10 + 48.19) \cdot 11.57}{2} = " 336.6 :$$

∴ " 336.6

:

כיתה	1 א"י	2 א"י	3 א"י	4 א"י
מספר התלמידים	25	30	35	40
ממוצע הציונים	60	80	50	70
סטיית התקן	11	4	10	0

$25 + 30 + 35 + 40 = 130$ " (1) .

. 130 " :

: (2)

$$\bar{x} = \frac{60 \cdot 25 + 80 \cdot 30 + 50 \cdot 35 + 70 \cdot 40}{130} = \frac{8,450}{130} = 65$$

.65 :

.4 " ,2 " :60 - , , " .

$$\cdot \frac{2}{4} = 0.5$$

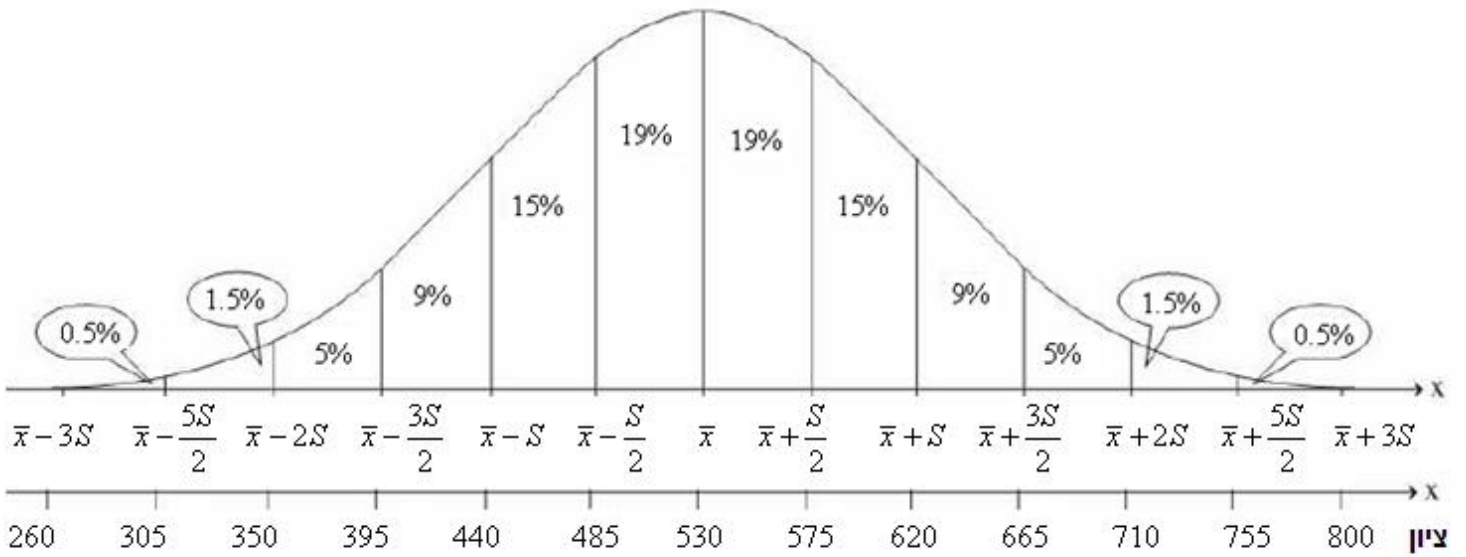
.0.5 :

.(,) ,0 4 " : 1.4 "

$\bar{x} = 530$ $s = 90$

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

90



620

$9\% + 5\% + 1.5\% + 0.5\% = 16\% = 0.16$:

$.0.16$:

$620 - 530$

$19\% + 15\% = 34\% = 0.34$:

$.0.34$: