

\_\_\_\_\_ .  
- x

$$. 55 - 5.5 = 49.5 , 5 5.5 -$$

"			
$55x$	$55$	$x$	
$49.5(x+5)$	$49.5$	$x+5$	

$$55x = 49.5(x+5) : ,$$

:

$$55x = 49.5(x+5)$$

$$55x = 49.5x + 247.5$$

$$5.5x = 247.5 \quad / : 5.5$$

$$\boxed{x = 45}$$

$$. 45 : :$$

$$. 55 \cdot 45 = 2,475 .$$

$$. 2,475 : :$$

$$+2$$

$$9$$

$$d = 5 \quad a_3 = 9 \quad :$$

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

$$a_3 = 9$$

$$9 = a_1 + (3-1) \cdot 2$$

$$9 = a_1 + 4$$

$$\boxed{a_1 = 5}$$

$$5 \quad :$$

.10 -

$$a_{10} = 5 + (10-1) \cdot 2$$

$$a_{10} = 5 + 9 \cdot 2$$

$$a_{10} = 5 + 18$$

$$\boxed{a_{10} = 23}$$

$$23 \quad :$$

$$S_n = 221$$

$$221$$

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

$$221 = \frac{n[2 \cdot 5 + 2 \cdot (n-1)]}{2} \quad / \cdot 2$$

$$442 = n \cdot (10 + 2n - 2)$$

$$442 = n \cdot (8 + 2n)$$

$$442 = 8n + 2n^2$$

$$0 = 2n^2 + 8n - 442$$

$$n_{1,2} = \frac{-8 \pm 60}{4}$$

$$n_1 = \frac{-8 + 60}{4} = \frac{52}{4} = 13 \text{ o.k.}$$

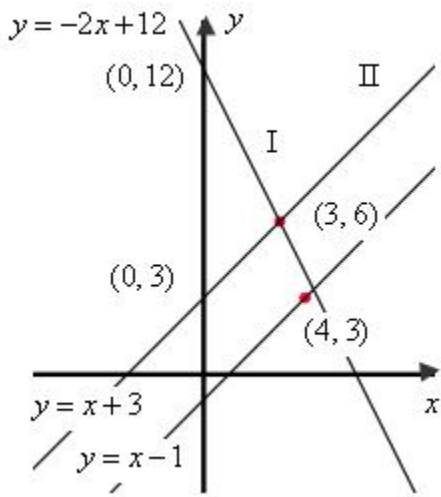
$$n_2 = \frac{-8 - 60}{4} = \frac{-68}{4} = -17 \text{ false. : } n = 1, 2, 3, \dots$$

$$( \quad n )$$

$$13 \quad :$$

· (0, 12) y -  
 · (0, 12) y -  
 · (0, 3) y -  
 y -

2 y = 2x + 12  
 -2 y = -2x + 12  
 1 y = x + 3  
 , y = -2x + 12 I :  
 · y = x + 3 II ,  
 ,( ) y = -2x + 12 I :  
 · ( ) y = x + 3 II



: II - I  

$$\begin{cases} y = x + 3 \\ y = -2x + 12 \end{cases}$$

$$x + 3 = -2x + 12$$

$$3x = 9 \quad /:3$$

$$x = 3 \rightarrow y = 3 + 3 = 6 \rightarrow \boxed{(3, 6)}$$

· (3, 6) II - I :

· (4, 3) 1 II .

:

$$y - 3 = 1(x - 4)$$

$$y - 3 = x - 4$$

$$\boxed{y = x - 1}$$

· y = x - 1 :

.AC = " 10      AP = " 5

.BD = " 10

.BD = " 10 :

ΔBCD

$$\cos \sphericalangle BDC = \frac{DC}{DB}$$

$$\cos 35^\circ = \frac{DC}{10}$$

$$10 \cos 35^\circ = DC$$

$$\boxed{DC = 8.192}$$

ΔBCD

ΔBCD

$$\sin \sphericalangle BDC = \frac{BC}{DB}$$

$$\sin 35^\circ = \frac{BC}{10}$$

$$10 \sin 35^\circ = BC$$

$$\boxed{BC = 5.736}$$

. " 8.192      DC      , " 5.736      BC      :

$$hekef = 2 \cdot BC + 2 \cdot DC$$

$$hekef = 2 \cdot 5.736 + 2 \cdot 8.192 = 27.86$$

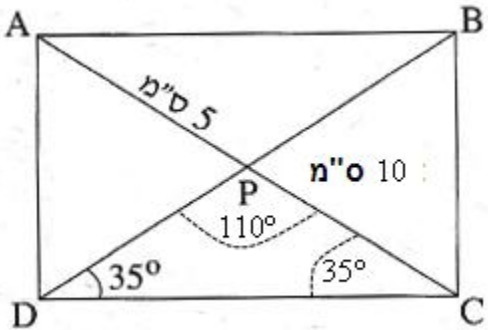
. " 27.86      :

.  $\sphericalangle DBC = 180^\circ - (35^\circ + 60^\circ) = 55^\circ$  : ΔBDC - .

ΔBPC

$$\sphericalangle BPC = 180^\circ - (55^\circ + 55^\circ) = 70^\circ$$

.70°      :



טווח הציונים בבחינה 800-600	טווח הציונים בבחינה 599-200	
540 תלמידים	670 תלמידים	למדו בבית הספר "על הגובה"
280 תלמידים	480 תלמידים	לא למדו בבית הספר "על הגובה"

$$670 + 480 + 540 + 280 = 1970 :$$

$$.1970$$

$$.599 - 200$$

"

$$\frac{670}{1970} = 0.34$$

$$. 0.34$$

$$. 800 - 600$$

$$540 + 280 = 820$$

$$\frac{820}{1970} = 0.416$$

$$. 0.416$$

.90 , 80 , 70 , 60 :

.70

(1)

$$\frac{90+80+70+60+x}{5} :$$

$$70 = \frac{90+80+70+60+x}{5} \quad / \cdot 5$$

$$350 = 300 + x$$

$$\boxed{x = 50}$$

. 50

.90 , 80 , 70 , 60 , 50 :

(2)

. 70

.100

$$\frac{90+80+70+60+100}{5} = \frac{400}{5} = 80 :$$

. 80

.0

$$\frac{90+80+70+60+0}{5} = \frac{300}{5} = 60 :$$

. 60