

$$y = -x^2 + 6x$$

(1)

$$\begin{cases} y = -x^2 + 6x \\ y = x + 4 \end{cases}$$

$$x + 4 = -x^2 + 6x$$

$$x^2 - 5x + 4 = 0$$

$$x_{1,2} = \frac{5 \pm 3}{2}$$

$$\left. \begin{aligned} x_1 = \frac{5+4}{2} = \frac{8}{2} = 4 &\rightarrow y = 4+4 = 8 \rightarrow \boxed{B(4,8)} \\ x_2 = \frac{5-3}{2} = \frac{2}{2} = 1 &\rightarrow y = 1+4 = 5 \rightarrow \boxed{A(1,5)} \end{aligned} \right\} \leftarrow x_B > x_A$$

. B(4,8) , A(1,5) :

$$.x = 3$$

(2)

$$(.1 < x < 4 \quad x)$$

$$. , x = 3 :$$

$$.y = 0$$

$$,x -$$

(1).

$$0 = -x^2 + 6x$$

$$0 = x(-x + 6)$$

$$x = 0 \rightarrow (0, 0)$$

$$-x + 6 = 0 \rightarrow x = 6 \rightarrow (6, 0)$$

. (0, 0) (6, 0) :

$$,x -$$

,

(2)

$$.6 - 0 \quad x$$

$$.0 < x < 6 :$$

$$\frac{\text{---}}{-x}$$

• ,

$$\frac{\text{---}}{}$$

,

960 -

• x + 960

$$\cdot ( \quad ) 1.1x \quad , \quad x + 960 \quad : \quad :$$

,

10%

• 1.1x ,

110% -

$$\frac{\text{---}}{}$$

,

-

$$\cdot 1.1x = x + 960 :$$

$$\frac{\text{---}}{}$$

$$1.1x = x + 960$$

$$0.1x = 960 \quad / : 0.1$$

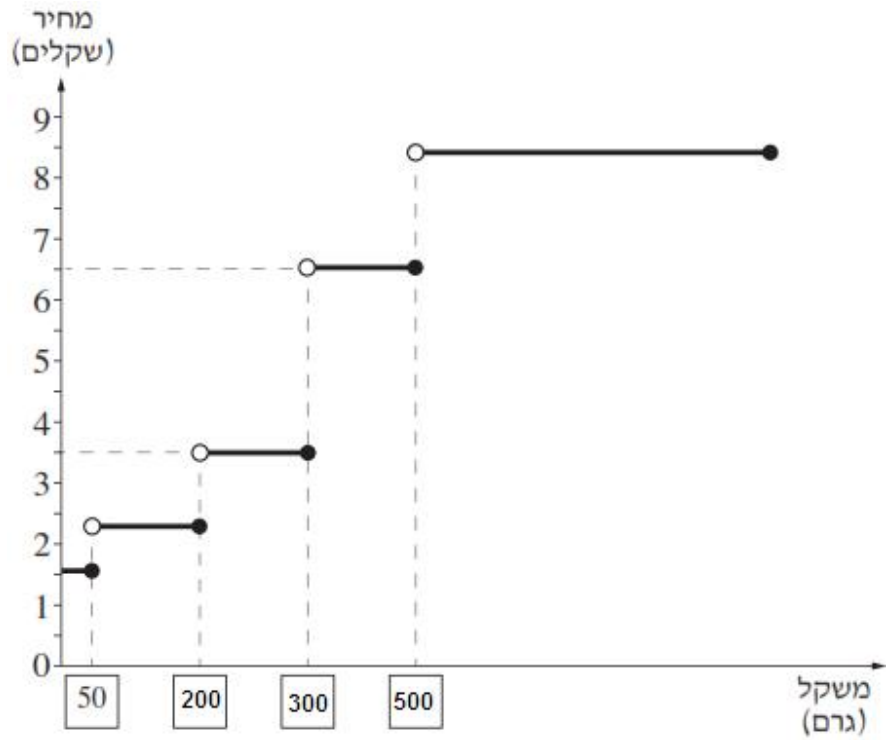
$$\boxed{x = 9600}$$

$$\cdot 9,600 \quad :$$

35001

12

.( ) , .  
 .( 201) ( 50) ,



1000-501	500-351	350-201	200-51	50	( )
8.4	6.5	3.5	2.30	1.60	( )

.500-351 , 410 .  
 . 6.5 :

.  $8.4 - 6.5 = 1.9$  ,  $6.5 - 3.5 = 3$  ,  $3.5 - 2.30 = 1.2$  ,  $2.30 - 1.60 = 0.7$

3 :

. 30 ,

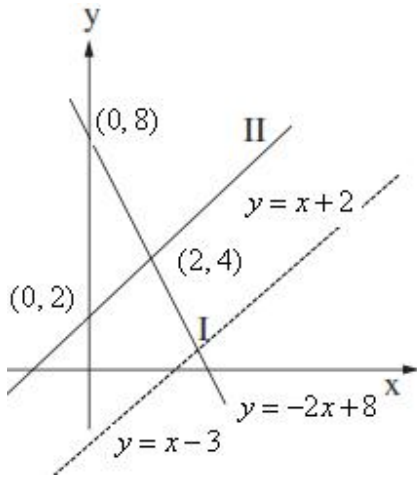
$2 \cdot 1.60 = 3.2$  :

. 2.30 : , 60 ,

.  $3.2 - 2.30 = 0.9$  :

.( 90) 0.9 :

• (0, 8) y -  
 • (0, 8) y -  
 • (0, 2) y -  
 y -



2 y = 2x + 8  
 -2 y = -2x + 8  
 1 y = x + 2  
 , y = -2x + 8 I :  
 . y = x + 2 II ,  
 ,( ) y = -2x + 8 I :  
 .( ) y = x + 2 II

: II - I

$$\begin{cases} y = x + 2 \\ y = -2x + 8 \end{cases}$$

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

$$3x = 6 \quad /:3$$

$$x = 2 \rightarrow y = 2 + 2 = 4 \rightarrow \boxed{(2, 4)}$$

• (2, 4) II - I :

• (5, 2) 1 II .

:

$$y - 2 = 1(x - 5)$$

$$y - 2 = x - 5$$

$$\boxed{y = x - 3}$$

• y = x - 3 :

, 3 AB .  
 $3 \cdot 100 = " 300$

:  $\triangle ABC$  -

$$(BC)^2 = (AB)^2 + (AC)^2$$

$$(BC)^2 = 300^2 + 60^2$$

$$BC = \sqrt{93600}$$

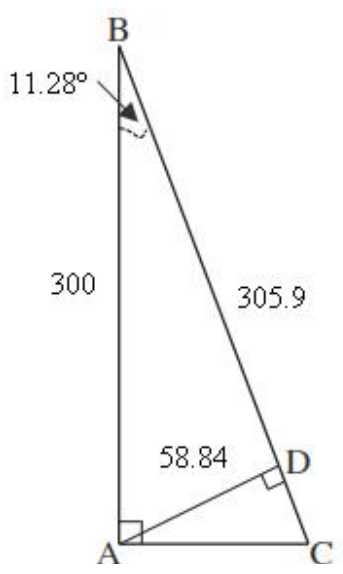
$$\boxed{BC = 305.9}$$

.( " 305.9 ) " 305.9 :

.  $\sphericalangle BAC = 90^\circ$  , AC AB

(  $\frac{0.6 \cdot 3}{2} = " 0.9$  )  $S_{\triangle ABC} = \frac{AC \cdot AB}{2} = \frac{60 \cdot 300}{2} = 9,000 \rightarrow \boxed{S_{\triangle ABC} = 9,000}$

.( " 0.9 ) " 9,000 ABC :



, BC AD

$$S_{\triangle ABC} = \frac{BC \cdot AD}{2} = \frac{60 \cdot 300}{2}$$

$$9,000 = \frac{305.9 \cdot AD}{2} \quad / \cdot 2$$

$$18,000 = 305.9 \cdot AD \quad / : 305.9$$

$$\boxed{AD = 58.84}$$

. AD = " 58.84 :

$\sphericalangle DAC$

$\triangle ADC$

$$\cos \sphericalangle DAC = \frac{AD}{AC}$$

$$\cos \sphericalangle DAC = \frac{58.84}{60}$$

$$\boxed{\sphericalangle DAC = 11.28^\circ}$$

.  $\sphericalangle DAC = 11.28^\circ$  :

:

5	4	3	2	1	0	(x)	
2	8	?	10	9	7	(f)	-

"

"

.20% = 0.2 ( 10 ) 2

:

$$\frac{10}{n} = 0.2 \quad / \cdot 0.2$$

$$10 = 0.2n \quad / : 0.2$$

$$\boxed{n = 50}$$

. 50 :

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

$$. 50 - 7 - 9 - 10 - 8 - 2 = 14 \quad 3$$

. 3 14 - :

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

5	4	3	2	1	0	(x)	
2	8	14	10	9	7	(f)	-

$$\bar{x} = \frac{0 \cdot 7 + 1 \cdot 9 + 2 \cdot 10 + 3 \cdot 14 + 4 \cdot 8 + 5 \cdot 2}{50} = \frac{113}{50}$$

$$\boxed{\bar{x} = 2.26}$$

. 2.26 :

$$50 - 7 = 43$$

$$p = \frac{43}{50}$$

$$? \frac{43}{50} 1$$

"