

$$\begin{array}{r} \cdot ( \quad ) \\ \cdot ( \quad ) \end{array} \quad \begin{array}{r} \hline - x \\ - y \end{array}$$

$$\cdot 1,800$$

$$\cdot x + y = 1800 :$$

$$\cdot 25\% - \quad , \quad ,$$

$$\cdot 2,200$$

$$\cdot \frac{100 + P}{100} \cdot x \quad - \quad P - \quad x$$

$$\cdot \frac{100 + 25}{100} \cdot x = 1.25x \quad , P = 25 ,$$

$$\cdot 1.25x + y = 2200 :$$

:

$$\begin{cases} x + y = 1800 \\ 1.25x + y = 2200 \quad / \cdot (-1) \end{cases}$$

$$+ \begin{cases} x + y = 1800 \\ -1.25x - y = -2200 \end{cases}$$

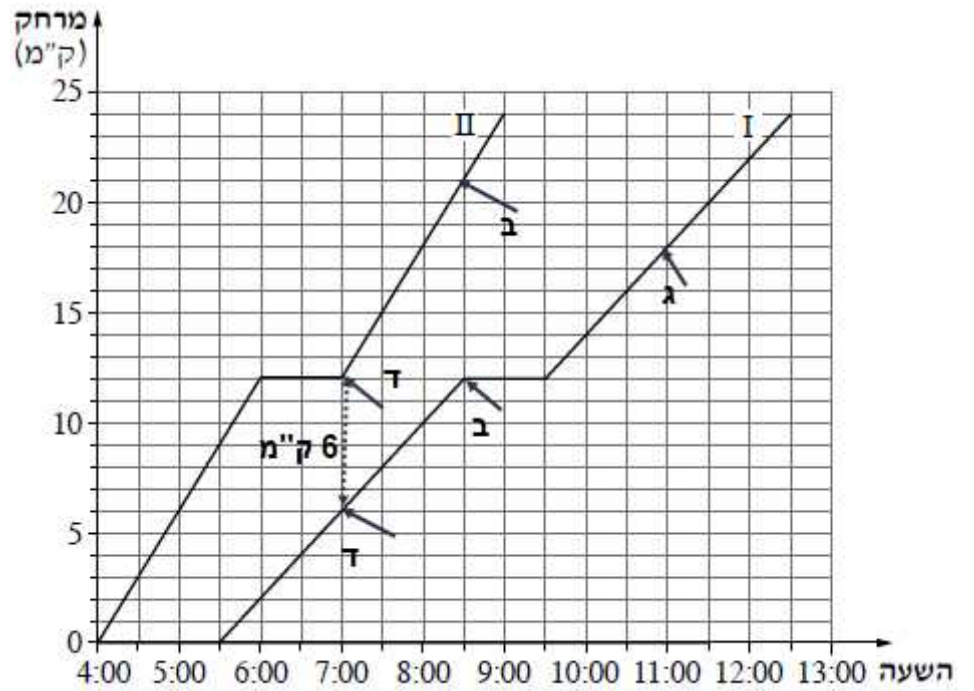
$$-0.25x = -400 \quad / : (-0.25)$$

$$\boxed{x = 1600}$$

$$1600 + y = 1800$$

$$\boxed{y = 200}$$

$$\cdot 1,600 \quad :$$



. ,I II .

. 8:30 " 21 .

. 8:30 " 12 .

. " 18 11:00 .

. 7:00 , .

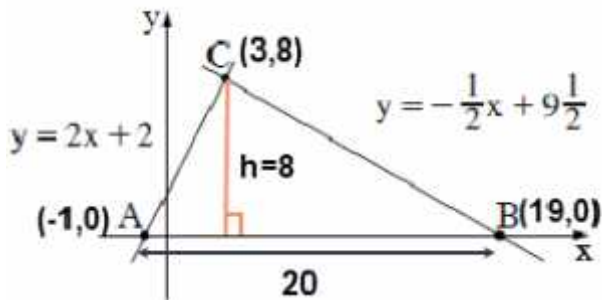
. " 12 .

. " 6 .

.  $12 - 6 =$  " 6 .

. " 6 :

.x - ( )  $y = -\frac{1}{2}x + 9\frac{1}{2}$  - ( )  $y = 2x + 2$



.  $y = 0$  x -

$0 = 2x + 2$   
 $-2x = 2 \quad /: (-2)$   
 $x = -1$

.  $A(-1, 0)$

$0 = -\frac{1}{2}x + 9\frac{1}{2}$

.  $B(19, 0)$

$\frac{1}{2}x = 9\frac{1}{2} \quad /: (2)$   
 $x = 19$

.  $B(19, 0)$  ,  $A(-1, 0)$  :

.  $AB$

.  $AB = x_B - x_A = 19 - (-1) = 20$

. ' 20  $AB$  :

:  $C$  ,

$$\begin{cases} y = 2x + 2 \\ y = -\frac{1}{2}x + 9\frac{1}{2} \end{cases}$$

$$2x + 2 = -\frac{1}{2}x + 9\frac{1}{2}$$

$$2\frac{1}{2}x = 7\frac{1}{2} \quad /: 2\frac{1}{2}$$

$$x = 3 \rightarrow y = 2 \cdot 3 + 2 = 8$$

.  $C(3, 8)$  :

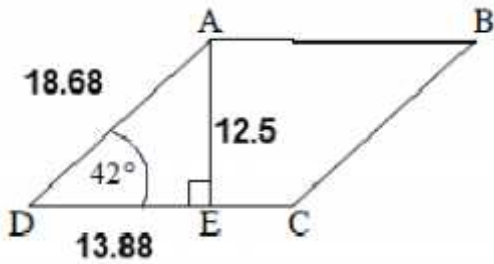
.  $(3, 8)$   $C$  :

. '  $h_{AB} = y_C - 0 = 8 - 0 = 8$   $AB$   $C(3, 8)$  ,  $h$  ,

$$S_{\triangle ABC} = \frac{AB \cdot h}{2} = \frac{20 \cdot 8}{2} = 80$$

. " 80  $ABC$  :

"



$$\begin{aligned}
 (DE)^2 + (AE)^2 &= (AD)^2 \\
 (DE)^2 + 12.5^2 &= 18.68^2 \\
 (DE)^2 + 156.25 &= 348.9 && : \Delta ADE - \\
 (DE)^2 &= 192.65 \\
 \boxed{DE = 13.88}
 \end{aligned}$$

. AD

$\Delta ADE$

$$\sin \sphericalangle ADE = \frac{AE}{AD}$$

$$\sin 42^\circ = \frac{12.5}{AD} \quad / \cdot AD$$

$$AD \sin 42^\circ = 12.5 \quad / : \sin 42^\circ$$

$$AD = \frac{12.5}{\sin 42^\circ}$$

$$\boxed{AD = 18.68}$$

. " 18.68

$$4 \cdot 18.68 = " 74.72$$

. " 74.72

. DE

$\Delta ADE$

$$\tan \sphericalangle ADE = \frac{AE}{DE}$$

$$\tan 42^\circ = \frac{12.5}{DE} \quad / \cdot DE$$

$$DE \tan 42^\circ = 12.5 \quad / : \tan 42^\circ$$

$$DE = \frac{12.5}{\tan 42^\circ}$$

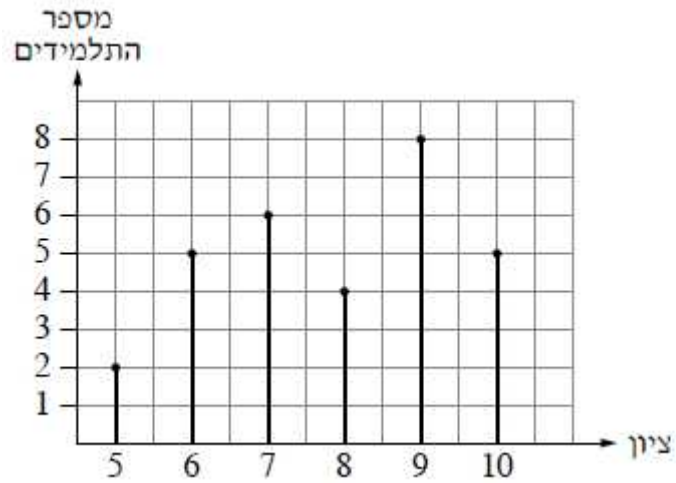
$$\boxed{DE = 13.88}$$

. " 13.88 DE

$$\sphericalangle AED = 90^\circ, DE, AE$$

$$S_{\Delta DEA} = \frac{DE \cdot AE}{2} = \frac{13.88 \cdot 12.5}{2} = 86.75 \rightarrow \boxed{S_{\Delta DEA} = 86.75}$$

. " 86.75 DEA



10	9	8	7	6	5	(x)
5	8	4	6	5	2	(f)

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

$$N = 2 + 5 + 6 + 4 + 8 + 5$$

$$\boxed{N = 30}$$

30

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

$$\bar{x} = \frac{5 \cdot 2 + 6 \cdot 5 + 7 \cdot 6 + 8 \cdot 4 + 9 \cdot 8 + 10 \cdot 5}{30} = \frac{236}{30}$$

$$\boxed{\bar{x} = 7.867}$$

. 7.867

10	9	8	7	6	5	(x)
5	8	4	6	5	2	(f)
30	25	17	13	7	2	

$$\frac{30+1}{2} = \frac{31}{2} = 15.5 \quad (30)$$

$$.16 - \quad 15 -$$

$$\frac{8+8}{2} = \frac{16}{2} = 8$$

$$8$$

$$.8$$

:

$$.9$$

,

$$.9$$

:

$$.7.867 -$$

,

$$.5$$

$$2$$

$$6$$

$$5,7$$

$$6$$

$$p = \frac{6+5+2}{30} = \frac{13}{30} \quad :$$

$$1. ( 43.33\% \quad 0.4333$$

$$) \frac{13}{30}$$

:

36 "

6  
(6,6) , (5,5) , (4,4) , (3,3) , (2,2) , (1,1)

(1,1)	(1,2)	(1,3)	(1,4)	(1,5)	(1,6)
(2,1)	(2,2)	(2,3)	(2,4)	(2,5)	(2,6)
(3,1)	(3,2)	(3,3)	(3,4)	(3,5)	(3,6)
(4,1)	(4,2)	(4,3)	(4,4)	(4,5)	(4,6)
(5,1)	(5,2)	(5,3)	(5,4)	(5,5)	(5,6)
(6,1)	(6,2)	(6,3)	(6,4)	(6,5)	(6,6)

$$p = \frac{6}{36} = \frac{1}{6}$$

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

,5

.1

. (5,1)

$$p = \frac{1}{36} :$$

$$\frac{1}{36}$$

,6

.4

. (6,1) , (6,2) , (6,3) :

3

$$p = \frac{3}{36} = \frac{1}{12} :$$

$$\frac{1}{12}$$