

.() - y ,() - x .

()	()	()	
x	x	1	
4y	y	4	
2x	x	2	
6y	y	6	

$$\begin{aligned}
 x + 4y &= 1500 & , & & 1500 \\
 2x + 6y &= 2500 & , & & 2500
 \end{aligned}$$

:

$$\begin{cases}
 x + 4y = 1500 \rightarrow x = 1500 - 4y \\
 2x + 6y = 2500
 \end{cases}$$

$$\begin{aligned}
 2(1500 - 4y) + 6y &= 2500 \\
 3000 - 8y + 6y &= 2500 \\
 -2y &= -500 \quad /: -2 \\
 y &= 250 \\
 x &= 1500 - 4 \cdot 250 \\
 x &= 500
 \end{aligned}$$

. 250 , 500 :

$$\frac{100 + 20}{100} \cdot 250 = 1.2 \cdot 250 = 300 : \quad 20\% -$$

$$\frac{100 + 20}{100} \cdot 500 = 1.2 \cdot 500 = 600 : \quad 20\% -$$

$$600 + 4 \cdot 300 = 1800 :$$

. 1800 :

$$\begin{aligned}
 & , & , & , & : \\
 . 1500 \cdot 1.2 &= 1800 & , & 20\%
 \end{aligned}$$

(A B)

.2

()

2 :

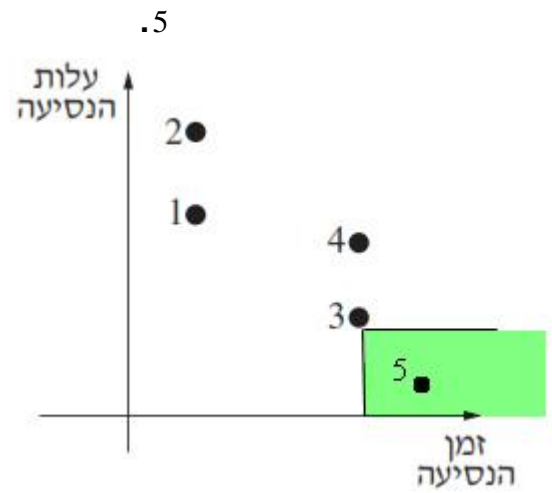
.4

()

4 :

,4 - 1

.4 - 1



3

.B A

.5

:

$$S = \frac{1}{2} e \cdot f \quad : \quad (e, f) \quad (S)$$

$$\cdot f = " 10$$

$$\cdot S = " 100 \quad :$$

$$: \quad f \quad 10 = S \quad 100$$

$$100 = \frac{1}{2} e \cdot 10$$

$$100 = 5e$$

$$\boxed{e = 20}$$

$$\cdot e = " 20 \quad :$$

$$\cdot e = S \quad f \quad \cdot$$

$$S = \frac{1}{2} e \cdot f \quad / \cdot 2$$

$$2S = e \cdot f \quad / : e$$

$$\boxed{f = \frac{2S}{e}}$$

$$\cdot f = \frac{2S}{e} \quad :$$

$$f = e = d \quad , \quad \cdot$$

$$S = \frac{1}{2} d \cdot d$$

$$\boxed{S = \frac{1}{2} d^2}$$

$$\cdot S = \frac{1}{2} d^2 \quad :$$

. $y = -x + 1$ AB

. A(0, 1) $x = 0$ y -

. B(1, 0) $x = 1 \leftarrow 0 = -x + 1$, y = 0 x -

. B(1, 0) , A(0, 1) :

. 1 BC

. $m = 1$, B(1, 0) , BC

$y - 0 = 1(x - 1)$

$y = x - 1$

. $y = x - 1$ BC

:

. 4 C

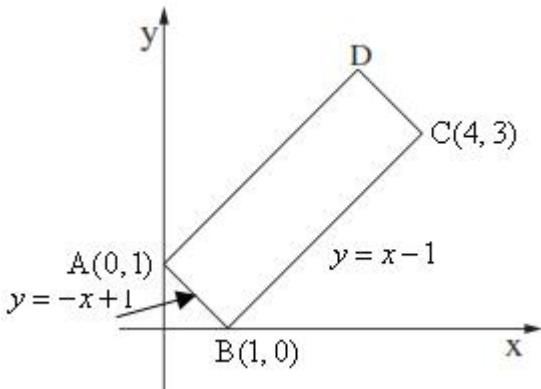
x -

. BC

$x = 4$

. $y = 4 - 1 = 3$

. $y_C = 3$:

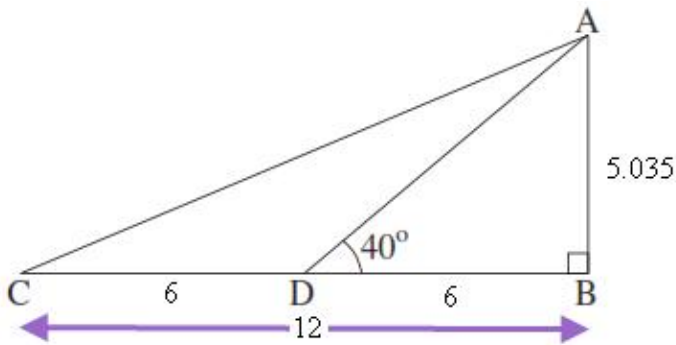
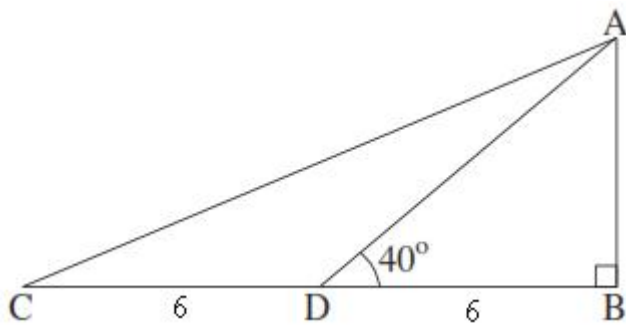


. $d_{AB} = \sqrt{(0-1)^2 + (1-0)^2} = \sqrt{2}$: B(1, 0) , A(0, 1) , AB

. $d_{BC} = \sqrt{(4-1)^2 + (3-0)^2} = \sqrt{18}$: B(1, 0) , C(4, 3) , BC

$S_{ABCD} = AB \cdot BC = \sqrt{2} \cdot \sqrt{18} = 6$:

. 6 ABCD :



. AB

 $\triangle ABD$

$$\tan \sphericalangle ADB = \frac{AB}{DB}$$

$$\tan 40^\circ = \frac{AB}{6}$$

$$6 \tan 40^\circ = AB$$

$$\boxed{AB = 5.035}$$

. AB = " 5.035 :

. $\triangle ABC$

$$. BC = 6 \cdot 2 = " 12 , BC \quad AD$$

 $\triangle ABC$

$$S = \frac{BC \cdot AB}{2}$$

$$S = \frac{12 \cdot 5.035}{2}$$

$$\boxed{S = 30.21}$$

. " 30.21 $\triangle ABC$:. $\sphericalangle ACB$ $\triangle ABC$

$$\tan \sphericalangle ACB = \frac{AB}{BC}$$

$$\tan \sphericalangle ACB = \frac{5.035}{12}$$

$$\boxed{\sphericalangle ACB = 22.76^\circ}$$

. $\sphericalangle ACB = 22.76^\circ$:

. AC

 $\triangle ABC$

$$\sin \sphericalangle ACB = \frac{AB}{AC}$$

$$\sin 22.76^\circ = \frac{5.035}{AC}$$

$$AC = \frac{5.035}{\sin 22.76^\circ}$$

$$\boxed{AC = 13.01}$$

$$12 + 5.035 + 13.01 = " 30.05 : ABC$$

. " 30.05 $\triangle ABC$:

95	85	75	(x)
2	3	5	(f)

$N = f_1 + f_2 + \dots + f_n = 5 + 3 + 2 = 10$ (1)

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

$\bar{x} = \frac{75 \cdot 5 + 85 \cdot 3 + 95 \cdot 2}{10} = \frac{820}{10}$

$\bar{x} = 82$

$75 \cdot 5 + 85 \cdot 3 + 95 \cdot 2 = 820$ (2)

$820 : 10 = 82$

95	85	75	(x)
2	6	2	(f)
10	8	2	

$N = 2 + 6 + 2 = 10$ (1)

$\bar{x} = \frac{75 \cdot 2 + 85 \cdot 6 + 95 \cdot 2}{10} = \frac{850}{10}$

$\bar{x} = 85$

$75 \cdot 2 + 85 \cdot 6 + 95 \cdot 2 = 850$ (2)

$\frac{85 + 85}{2} = 85$ (3)

$85 \cdot 2 = 170$

$85 \cdot 6 = 510$

$85 \cdot 2 = 170$

$170 + 510 + 170 = 850$

$850 : 10 = 85$

"