

.() - y ,() - x .

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

$$x + 4y = 1500 \quad , \quad 1500$$

$$2x + 6y = 2500 \quad , \quad 2500$$

:

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

$$2(1500 - 4y) + 6y = 2500$$

$$3000 - 8y + 6y = 2500$$

$$-2y = -500 \quad /: -2$$

$$y = 250$$

$$x = 1500 - 4 \cdot 250$$

$$x = 500$$

$$\cdot 250 \quad , \quad 500 \quad :$$

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

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

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

$$\cdot 1800 \quad :$$

$$\cdot 1500 \cdot 1.2 = 1800 \quad , \quad 20\%$$

..

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

$$\cdot f = " 10$$

$$, S = " 100 : .$$

$$: f 10 - S 100$$

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

$$100 = 5e$$

$$\boxed{e = 20}$$

$$\cdot e = " 20 :$$

$$\cdot e - S f .$$

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

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

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

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

$$f = e = d , .$$

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

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

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

35001

13

(A B)

.2

()

2 :

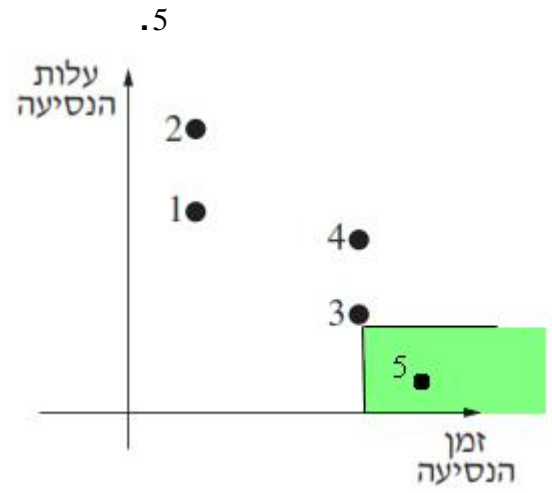
.4

()

4 :

,4 - 1

.4 - 1



3

.B

A

.5

:

. $y = -x + 1$ 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 $x = 4$

. $y = 4 - 1 = 3$

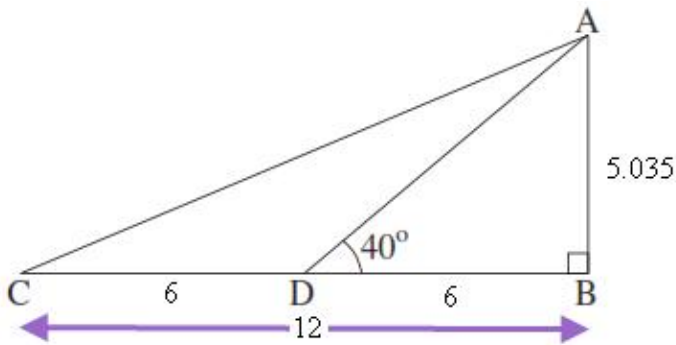
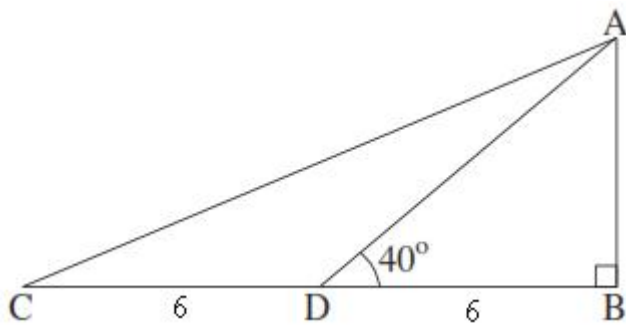
. $y_c = 3$:

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

. 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 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 ABC :

:

| | | | | | | |
|-----|----|----|-----|----|-------|---|
| | | | | | | |
| | 30 | 35 | 32 | 36 | 40 | |
| | 4 | 15 | 7 | | 9 | 5 |
| 10% | | | 25% | | 12.5% | |

$$\frac{9}{36} \cdot 100\% = 25\% \quad : \quad 36 \quad 9 \quad ,$$

$$\frac{25}{100} \cdot 32 = 8 \quad : \quad 32 - 25\% \quad ,$$

$$\frac{7}{35} \cdot 100\% = 20\% \quad : \quad 35 \quad 7 \quad ,$$

$$\frac{15}{30} \cdot 100\% = 50\% \quad : \quad 30 \quad 15 \quad ,$$

$$. x = 40 \leftarrow 400 = 10x \leftarrow \frac{4}{x} = \frac{10}{100} \quad : \quad 10\% \quad 4 \quad ,$$

| | | | | | | |
|-----|-----|-----|-----|-----|-------|--|
| | | | | | | |
| 40 | 30 | 35 | 32 | 36 | 40 | |
| 4 | 15 | 7 | 8 | 9 | 5 | |
| 10% | 50% | 20% | 25% | 25% | 12.5% | |

.50% , , . :

$$. 40 + 36 + 32 + 35 + 30 + 40 = 213 \quad : \quad , \quad .$$

$$5 + 9 + 8 + 7 + 15 + 4 = 48 \quad : \quad ,$$

$$\frac{48}{213} \cdot 100\% = 22.54\% \quad :$$

22.54% :