

. 41 " 4 - " 3  
 . ,20% -  
 . 45 " 4 - " 3  
 . "

( ) " - x  
 ( ) " - y

x - , 20%  
 , 120% -

$$.120\%x = \frac{120}{100}x = 1.2x$$

"				
3y	y	3		
4x	x	4		
3y	y	3		
$4 \cdot 1.2x = 4.8x$	1.2x	4		

$$4x + 3y = 41 : , 41$$

$$4.8x + 3y = 45 : , 45$$

:

$$\begin{cases} 4x + 3y = 41 & / \cdot -1 \\ 4.8x + 3y = 45 \end{cases}$$

$$\begin{cases} -4x - 3y = -41 \\ 4.8x + 3y = 45 \end{cases}$$

$$\begin{cases} -4x - 3y = -41 \\ 4.8x + 3y = 45 \end{cases} +$$

$$0.8x = 4 \quad / : 0.8$$

$$\boxed{x = 5}$$

. 5 , , " :

, 20% :

. 4 -

$$. x = 5 - 0.2 \cdot 4x = 4 ,$$

"

$$2 \quad S = \frac{(a+b) \cdot H}{2}$$

$$\cdot 2S = (a+b) \cdot H$$

$$a+b \cdot$$

$$H = \frac{2S}{a+b} :$$

$$H = \frac{2S}{a+b} :$$

$$a = " 2 , b = " 7 , S = " 45 : .$$

$$H = \frac{2S}{a+b}$$

$$H = \frac{2 \cdot 45}{2+7}$$

$$H = \frac{90}{9}$$

$$\boxed{H=10}$$

$$H = " 10 :$$

... " 5 , +5  
 .  $d = 4$  -  $a_1 = 20$  : , " 20  
 12 -

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

12 -

$$a_{12} = 20 + (12-1) \cdot 5$$

$$a_{12} = 20 + 11 \cdot 5$$

$$a_{12} = 20 + 55$$

$$\boxed{a_{12} = 75}$$

. 12 - " 75 :

12 - " .

$$S_{12} ,$$

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

$$S_{12} = \frac{12}{2}(2 \cdot 20 + (12-1) \cdot 5)$$

$$S_{12} = 6 \cdot (40 + 55)$$

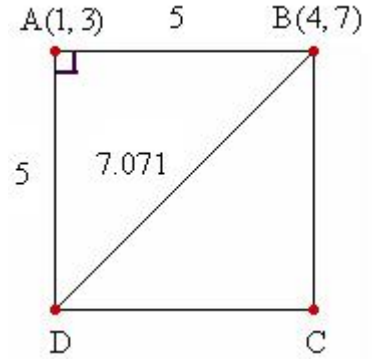
$$S_{12} = 6 \cdot 95$$

$$\boxed{S_{12} = 570}$$

. 570 12- " :

$$(S_n = \frac{n}{2}(a_1 + a_n) : )$$

:



. AB .

$$d^2 = (x_2 - x_1)^2 + (y_2 - y_1)^2$$

$$d^2_{AB} = \sqrt{(4-1)^2 + (7-3)^2}$$

$$d_{AB} = \sqrt{25}$$

$$\boxed{d_{AB} = 5}$$

5 AB :

.( ) 2 ,

$$S_{ABCD} = 5^2$$

$$\boxed{S_{ABCD} = 25}$$

25 :

ΔDAB

$$(AD)^2 + (AB)^2 = (BD)^2$$

$$5^2 + 5^2 = (BD)^2$$

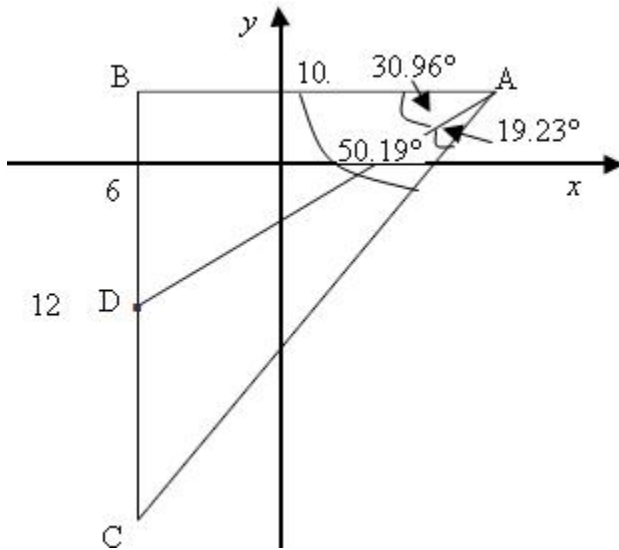
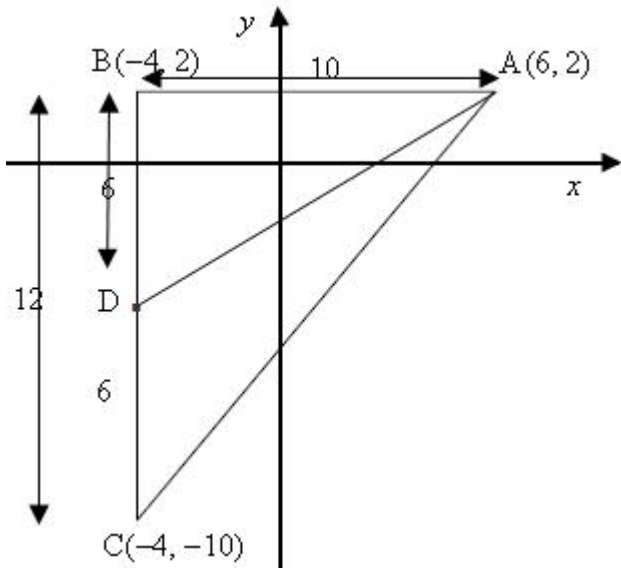
$$50 = (BD)^2$$

$$\boxed{BD = 7.071}$$

7.071 :

35001

10



$\triangle ABC$

AB  $y$  -

BC  $x$  -

$$AB = x_A - x_B = 6 - (-4) = 10$$

$$BC = y_B - y_C = 2 - (-10) = 12$$

$$AB = 10, \quad BC = 12 :$$

$\triangle ABC$  D

$$BD = \frac{12}{2} = 6 :$$

$\angle BAD$

$\triangle ABD$

$$\tan \angle BAD = \frac{BD}{AB}$$

$$\tan \angle BAD = \frac{6}{10}$$

$$\boxed{\angle BAD = 30.96^\circ}$$

$$\angle BAD = 30.96^\circ :$$

$\angle BAC$

$\triangle ABC$

$$\tan \angle BAC = \frac{BC}{AB}$$

$$\tan \angle BAC = \frac{12}{10}$$

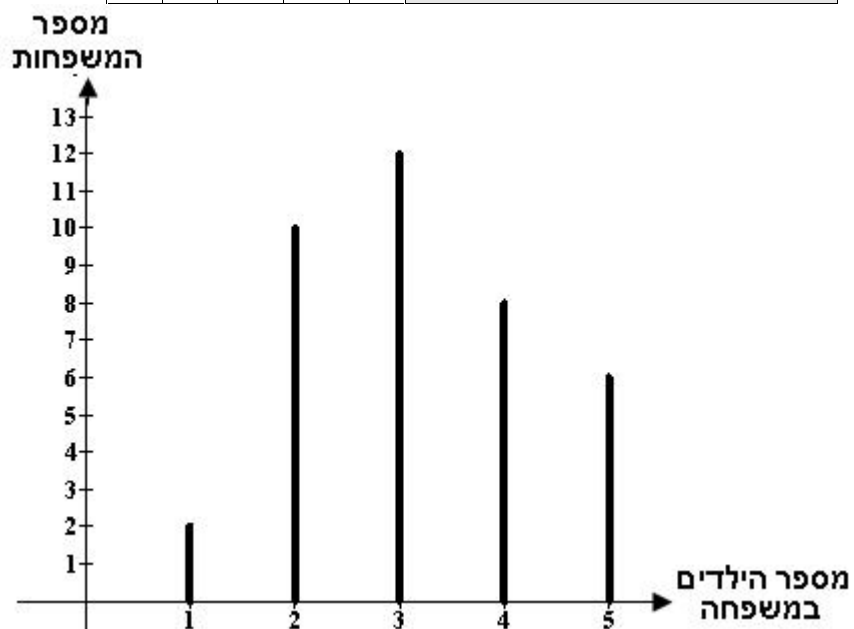
$$\boxed{\angle BAC = 50.19^\circ}$$

$$\angle DAC = 50.19^\circ - 30.96^\circ = 19.23^\circ :$$

$$\angle DAC = 19.23^\circ :$$

:

5	4	3	2	1	(x)
6	8	12	10	2	(f)



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

$$N = 2 + 10 + 12 + 8 + 6$$

$$\boxed{N = 38}$$

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

$$\bar{x} = \frac{1 \cdot 2 + 2 \cdot 10 + 3 \cdot 12 + 4 \cdot 8 + 5 \cdot 6}{38} = \frac{120}{38}$$

$$\boxed{\bar{x} = 3.158}$$

$$3.158$$

:

5

4

5

6

4

8

$$p = \frac{8+6}{38} = \frac{14}{38} = \frac{7}{19}$$

:

$$\frac{7}{19}$$

5

4

1

1

11

" . 3 - " .  
 2 , 2 10  
 $\frac{10+2}{38} = \frac{12}{38} = 0.3158 = 31.58\%$  :  
 . 31.58% 3 - :