

$\frac{100+40}{100} \cdot x = 1.4x$, " 40% - "

" ()	" ()	" ()	
$5 \cdot 1.4x = 7x$	$1.4x$	5	
$9x$	x	9	

$7x + 9x = 128$: , 128

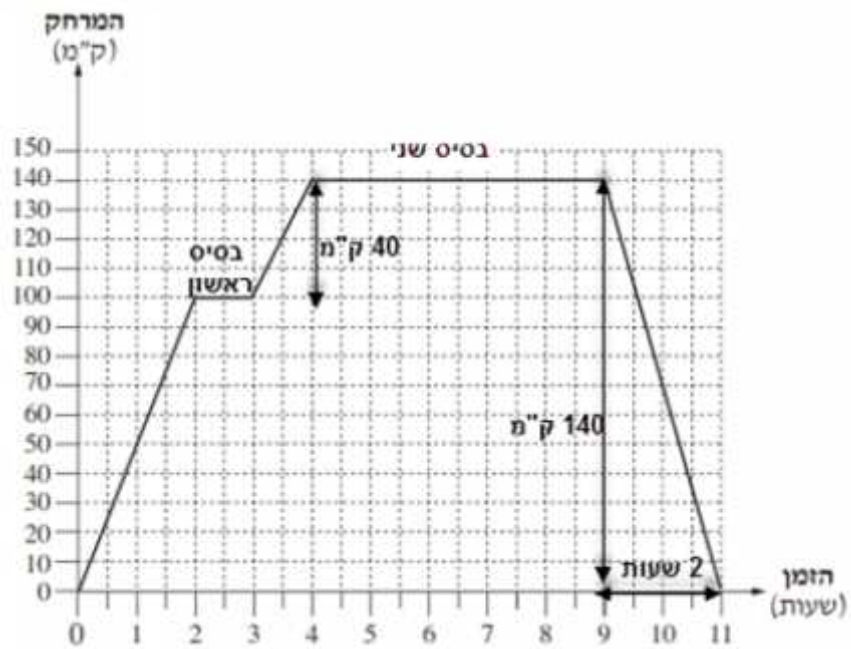
:

$$7x + 9x = 128$$

$$16x = 128 \quad /:16$$

$$\boxed{x = 8}$$

. 8 " 1 :



, (3 - 2)

. (9 - 4)

. 5 , :

. $140 - 100 = "$ 40

. " 40 :

. " 140 .

$140 \cdot 2 = "$ 280 :

. " 280 :

. 4 .

. (11 - 9) 2 .

. 2 :

. 2 , " 140 .

$140 : 2 = "$ 70 :

. " 70 :

"

$$d = 4 \quad a_1 = 20$$

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

9 -

$$a_9 = 20 + (9-1) \cdot 4$$

$$a_9 = 20 + 8 \cdot 4$$

$$a_9 = 20 + 32$$

$$\boxed{a_9 = 52}$$

52 :

 S_9 ,

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

$$S_9 = \frac{9[2 \cdot 20 + 4 \cdot (9-1)]}{2}$$

$$S_9 = 4.5 \cdot (40 + 32)$$

$$S_9 = 4.5 \cdot 72$$

$$\boxed{S_9 = 324}$$

" 324 :

M

$$x_M = \frac{x_B + x_D}{2} = \frac{8+0}{2} = \frac{8}{2} = 4$$

$$y_M = \frac{y_B + y_D}{2} = \frac{2+3}{2} = \frac{5}{2} = 2.5$$

• (4, 2.5)

• AC

• M

$$x_M = \frac{x_A + x_C}{2}$$

$$4 = \frac{3 + x_C}{2}$$

$$8 = 3 + x_C$$

$$x_C = 5$$

$$y_M = \frac{y_A + y_C}{2}$$

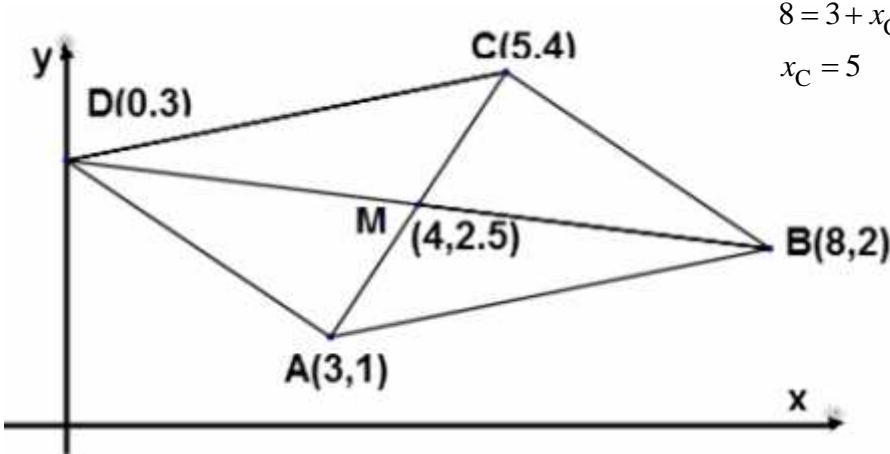
$$2.5 = \frac{1 + y_C}{2}$$

$$5 = 1 + y_C$$

$$y_C = 4$$

• (5, 4)

C



• AD

(1)

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$d_{AD} = \sqrt{(3-0)^2 + (1-3)^2}$$

$$d_{AD} = \sqrt{13}$$

• $\sqrt{13}$

AD

• AB

(2)

$$d_{AB} = \sqrt{(3-8)^2 + (1-2)^2}$$

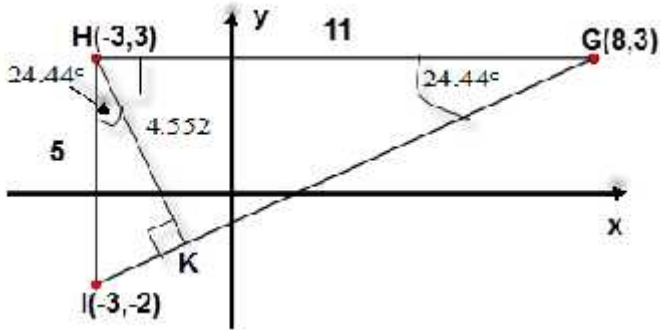
$$d_{AB} = \sqrt{26}$$

• ABCD

• AB

• AD

• ABCD



ΔHGI (1)
 $\angle GHI = 90^\circ$
 $HG = x_G - x_H = 8 - (-3) = 11$
 $HI = y_H - y_I = 3 - (-2) = 5$
 $\therefore HI = 5, HG = 11 :$

$\therefore \angle HGI$ (2)

ΔHGI
 $\tan \angle HGI = \frac{HI}{HG}$
 $\tan \angle HGI = \frac{5}{11}$
 $\boxed{\angle HGI = 24.44^\circ}$

$\therefore \angle HGI = 24.44^\circ :$

$\therefore HK$ (1)

ΔGHK
 $\sin \angle HGI = \frac{HK}{HG}$
 $\sin 24.44^\circ = \frac{HK}{11}$
 $11 \sin 24.44^\circ = HK$
 $\boxed{HK = 4.552}$

$\therefore HK = 4.552$

$\therefore \angle IHK$ (2)

ΔHGI
 $\cos \angle IHK = \frac{HK}{HI}$
 $\cos \angle IHK = \frac{4.552}{5}$
 $\boxed{\angle IHK = 24.44^\circ}$

$\therefore \angle IHK = 24.44^\circ :$

5	4	3	2	1	0	(x)
2	10	?	24	6	5	(f)

.40% = 0.4

(24) 2

$$\frac{24}{n} = 0.4 \quad / \cdot 0.4$$

$$24 = 0.4n \quad / : 0.4$$

$$\boxed{n = 60}$$

60

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

$$.60 - 5 - 6 - 24 - 10 - 2 = 13$$

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

5	4	3	2	1	0	(x)
2	10	13	24	6	5	(f)

$$\bar{x} = \frac{0 \cdot 5 + 1 \cdot 6 + 2 \cdot 24 + 3 \cdot 13 + 4 \cdot 10 + 5 \cdot 2}{60} = \frac{143}{60}$$

$$\boxed{\bar{x} = 2.383}$$

. 2.383

. ($\frac{60}{2} = 30$) 31 - 30 -

.(60)

5	4	3	2	1	0	(x)
2	10	13	24	6	5	(f)
60	58	48	35	11	5	

2

.(2)

2