

$$y = 2x - 1 \quad y = x^2 - 9$$

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

$$x^2 - 9 = 2x - 1$$

$$x^2 - 2x - 8 = 0$$

$$x_{1,2} = \frac{2 \pm 6}{2}$$

$$x_1 = \frac{2+6}{2} = \frac{8}{2} = 4 \rightarrow y = 2 \cdot 4 - 1 = 7 \rightarrow \boxed{(4, 7)}$$

$$x_2 = \frac{2-6}{2} = \frac{-4}{2} = -2 \rightarrow y = 2 \cdot (-2) - 1 = -5 \rightarrow \boxed{(-2, -5)}$$

$(-2, -5)$, $(4, 7)$:

$$x = 0$$

$$(-2 < x < 4 \quad x)$$

$, x = 0 :$

$x -$

$$(4, 7)$$

$$, x < -3 \quad x > 3$$

$$((-3, 0) \quad (3, 0) ,$$

$, (4, 7) :$

,
 , +5
 , 6
 . $d = 5$ - $a_1 = 6$:

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

8 -

$$a_8 = 6 + (8-1) \cdot 5$$

$$a_8 = 6 + 7 \cdot 5$$

$$a_8 = 6 + 35$$

$$\boxed{a_8 = 41}$$

41 :

$$.S_n = 782 \quad 782$$

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

$$782 = \frac{n[2 \cdot 6 + 5 \cdot (n-1)]}{2} \quad / \cdot 2$$

$$1564 = n \cdot (12 + 5n - 5)$$

$$1564 = n \cdot (7 + 5n)$$

$$1564 = 7n + 5n^2$$

$$0 = 5n^2 + 7n - 1564$$

$$n_{1,2} = \frac{-7 \pm 177}{10}$$

$$n_1 = \frac{-7 + 177}{10} = \frac{170}{10} = 17 \text{ o.k.}$$

$$n_2 = \frac{-7 - 177}{10} = \frac{-184}{10} = -18.4 \text{ false. : } n = 1, 2, 3 \dots$$

(. n)

. 17 :

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

$(2) y = 2x + 5$

$x = 0 \quad y$

$y_G = 2 \cdot 0 + 5 = 5 \rightarrow \boxed{G(0, 5)}$

$y_I = \frac{1}{2} \cdot 0 - 1 = -1 \rightarrow \boxed{I(0, -1)}$

:H ,

$$\begin{cases} y = 2x + 5 \\ y = \frac{1}{2}x - 1 \end{cases}$$

$2x + 5 = \frac{1}{2}x - 1 \quad / \cdot 2$

$4x + 10 = x - 2$

$3x = -12 \quad / : 3$

$x = -4 \rightarrow y = 2 \cdot (-4) + 5 = -3 \rightarrow \boxed{H(-4, -3)}$

H(-4, -3) , I(0, -1) , G(0, 5) :

(y -

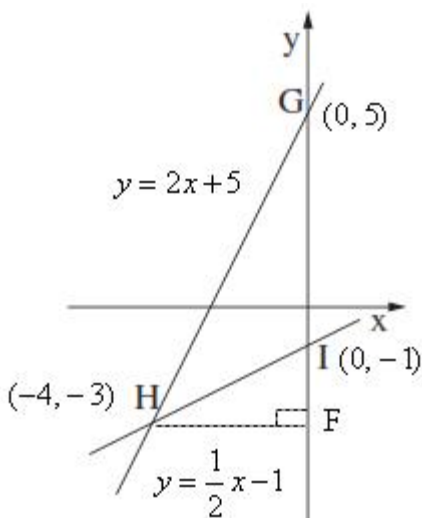
I - G

) GI

$(\cdot) 5 - (-1) = 6$

6 y -

:



$x_F = 0 \quad y - \quad F \quad (1).$

.HF

$HF = x_F - x_H = 0 - (-4) = 4$

. 4 :

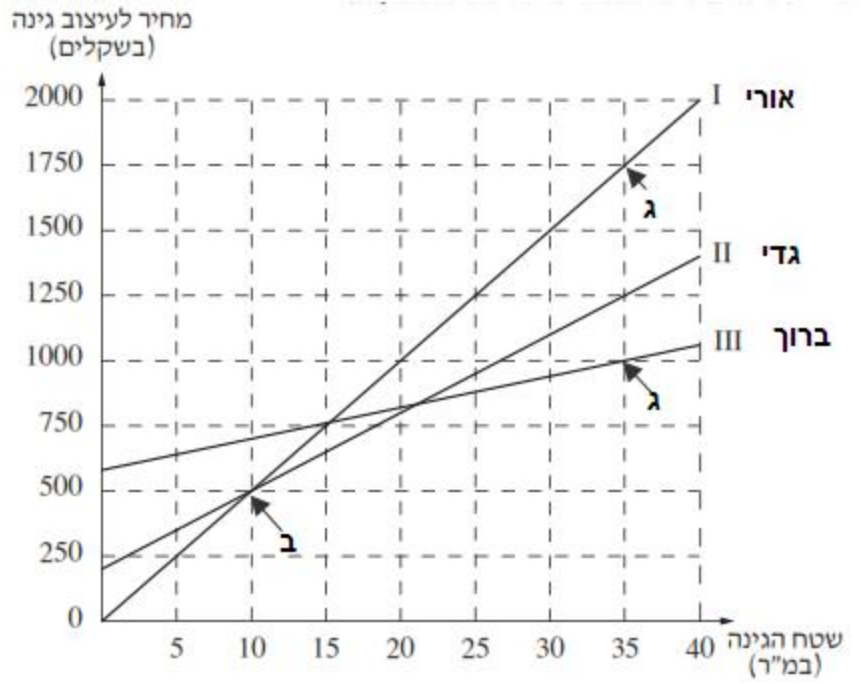
.GHI (2)

$S_{\Delta GHI} = \frac{GI \cdot HF}{2} = \frac{6 \cdot 4}{2} = 12$

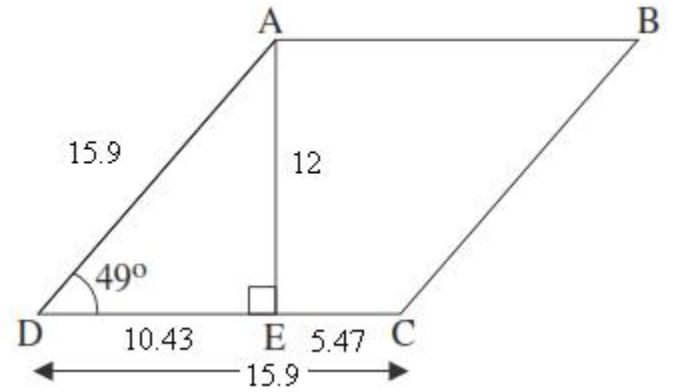
. " 12

GHI

:



: , - ()
 , I , (0,200) 200
 , (0,580) 580 , () - "
 , (" 12) , (30)
 : , II , I :
 , III , II , I :
 , " 10 (1) .
 " 10 :
 , 500 : (2)
 , , , 1000 , , , " 35 .
 1750 , , , 1000 , , , " 35 .
 1750 - 1000 = 750
 , 750 :



. AD

$\triangle ADE$

$$\sin \angle ADH = \frac{AE}{AD}$$

$$\sin 49^\circ = \frac{12}{AD}$$

$$AD \sin 49^\circ = 12 \quad /: \sin 49^\circ$$

$$AD = \frac{12}{\sin 49^\circ}$$

$$AD = 15.9$$

:

$$4 \cdot 15.9 = " 63.6$$

$$. " 63.6$$

:

$$CE = DC - DE :$$

CE

$\triangle ADE$

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

$$\tan 49^\circ = \frac{12}{DE}$$

$$DE \tan 49^\circ = 12 \quad /: \tan 49^\circ$$

$$DE = \frac{12}{\tan 49^\circ}$$

$$DE = 10.43$$

$$, , DC = AD = 17.43$$

$$CE = 15.9 - 10.43 = 5.47$$

$$. " 5.47$$

CE

:

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

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

$$N = 2 + 5 + 6 + 4 + 7 + 4$$

$$\boxed{N = 28}$$

28 :

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

$$\bar{x} = \frac{5 \cdot 2 + 6 \cdot 5 + 7 \cdot 6 + 8 \cdot 4 + 9 \cdot 7 + 10 \cdot 4}{28} = \frac{217}{28}$$

$$\boxed{\bar{x} = 7.75}$$

. 7.75 :

.(7)

,9

.9 :

(1) .

.7 6 ,6 5,5 2

$$p = \frac{2+5+6}{28} = \frac{13}{28} = 0.4643$$

1?0.46431

1

1K

.() 9 - 6

(2)

.9

7

8

4,7

6,6

5

$$p = \frac{5+6+4+7}{28} = \frac{22}{28} = 0.7857$$

1?0.78571

() 9 - 7

1

1K