

$\frac{40}{x} = \frac{50}{x-12}$
 $40(x-12) = 50x$
 $40x - 480 = 50x$
 $-10x = 480$
 $x = -48$

"			
$40x$	x	40	
$50(x-12)$	$x-12$	50	

$$40x = 50(x-12) : ,$$

:

$$40x = 50(x-12)$$

$$40x = 50x - 600$$

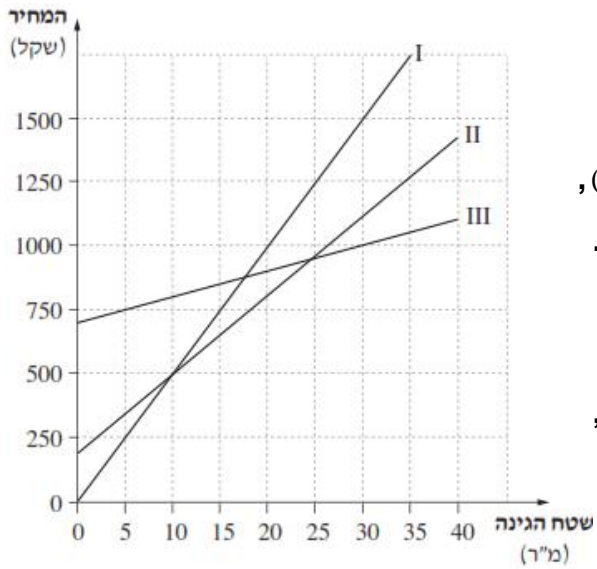
$$-10x = -600 \quad /: (-10)$$

$$\boxed{x = 60}$$

$$. \quad 60 \quad :$$

$$. \quad 60 \cdot 40 = \quad 2,400$$

$$. \quad 2,400 \quad :$$



, (0, 200)
 , (0, 700)

: ,
 ,
 I
 200
 700
 - "
 (50)
 (30)
 (10)

.(10, 500)

. 500 ,

,(1500)

.III ,II ,I :

, " 10

" 10 :

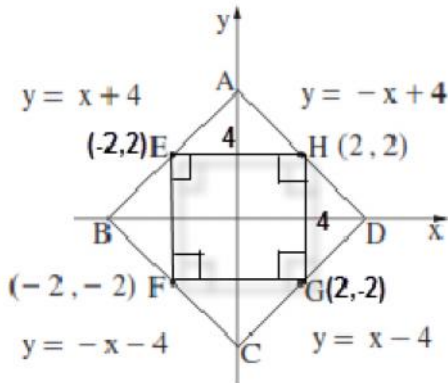
, " 30

. " 50

, " 25 ,

. " 50 ,

$A(0,4)$	$y =$	$(\quad) + 1$	$, y = x + 4$	AB
$A(0,4)$	$y =$	$(\quad) - 1$	$, y = -x + 4$	AD
$C(0,-4)$	$y =$	$(\quad) + 1$	$, y = x - 4$	DC
$C(0,-4)$	$y =$	$(\quad) - 1$	$, y = -x - 4$	CB



$y = 0$ $x =$

:(AB) $y = x + 4$ $y = 0$
 $0 = x + 4 \rightarrow x = -4 \rightarrow B(-4,0)$

:(AD) $y = -x + 4$ $y = 0$
 $0 = -x + 4 \rightarrow x = 4 \rightarrow D(4,0)$

$D(4,0)$, $C(0,-4)$, $B(-4,0)$, $A(0,4)$:

DC - AB G - E

$$\left. \begin{aligned} x_E &= \frac{x_A + x_B}{2} = \frac{0 + (-4)}{2} = \frac{-4}{2} = -2 \\ y_E &= \frac{y_A + y_B}{2} = \frac{4 + 0}{2} = \frac{4}{2} = 2 \end{aligned} \right\} E(-2,2)$$

$$\left. \begin{aligned} x_G &= \frac{x_D + x_C}{2} = \frac{4 + 0}{2} = \frac{4}{2} = 2 \\ y_G &= \frac{y_D + y_C}{2} = \frac{0 + (-4)}{2} = \frac{-4}{2} = -2 \end{aligned} \right\} G(2,-2)$$

$E(-2,2)$, $G(2,-2)$:

$F(-2,-2)$: BC , $H(2,2)$: AD

$(\quad) 2 - (-2) = 4$ (x) $y =$ HG

$(\quad) 2 - (-2) = 4$ (y) $x =$ EH

$x =$ FG - $y =$ EF

()

$$S_{EFGH} = HG \cdot EH = 4 \cdot 4 = 16$$

" 16 EFGH :

$$d = 2, a_3 = 8, \quad 16 \quad : \quad .$$

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

$$a_3 = a_1 + (3-1)d$$

$$8 = a_1 + 2 \cdot 2$$

$$8 = a_1 + 4$$

$$a_1 = 4$$

$$. \quad 12 - \quad ,$$

$$a_{12} = a_1 + (12-1)d$$

$$a_{12} = 4 + 11 \cdot 2$$

$$\boxed{a_{12} = 26}$$

$$. a_{12} = 26 :$$

$$. \quad 16 - \quad , \quad .$$

$$a_{16} = a_1 + (16-1)d$$

$$a_{16} = 4 + 15 \cdot 2$$

$$\boxed{a_{16} = 34}$$

$$. a_{16} = 34 :$$

$$. a_{16} = 34$$

$$. 26, 28, 30, 32, 34 :$$

$$26 + 28 + 30 + 32 + 34 = 150 :$$

$$. a_{16} = 34 \quad a_{12} = 26$$

$$S_5 = \frac{5 \cdot (26 + 34)}{2}$$

$$S_5 = \frac{300}{2}$$

$$\boxed{S_5 = 150}$$

$$. 150 \quad 5 \quad :$$

() BC = " 10
 (3) DC = " 30

.ΔBCD

ΔBCD

$$(BD)^2 = (BC)^2 + (DC)^2$$

$$(BD)^2 = 10^2 + 30^2$$

$$(BD)^2 = 1000$$

$$BD = \sqrt{1000}$$

$$BD = " 31.62$$

. " 31.62 :

. ∠BDC ,

ΔBCD

$$\tan \angle BDC = \frac{BC}{DC}$$

$$\tan \angle BDC = \frac{10}{30}$$

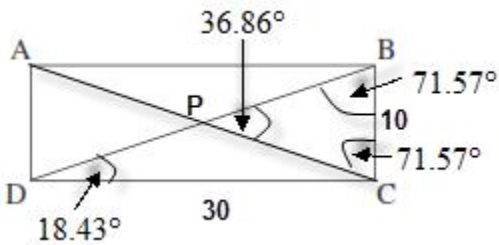
$$\boxed{\angle BDC = 18.43^\circ}$$

. 18.43° :

. ∠BDC ,

$$\angle BDC = 180^\circ - 90^\circ - 18.43^\circ = 71.57^\circ ; \Delta BDC - 180^\circ$$

. 71.57° :



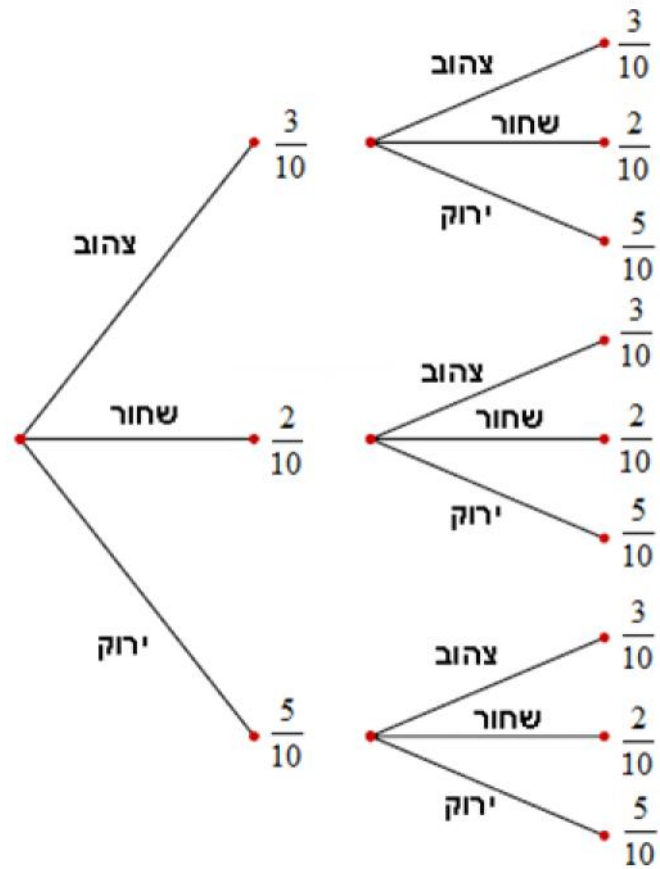
.180°

.36.86°

ΔBPC

$$\angle BPC = 180^\circ - (71.57^\circ + 71.57^\circ) = 36.86^\circ$$

:



$$P = \frac{3}{10} \cdot \frac{3}{10} = 0.09$$

. 0.09 :

$$P = \frac{5}{10} \cdot \frac{5}{10} + \frac{2}{10} \cdot \frac{2}{10} + \frac{3}{10} \cdot \frac{3}{10} = 0.38$$

1?0.381 :

:

.

$$P = \frac{5}{10} \cdot \frac{2}{10} = 0.1$$

. 0.1

:

:

,

.

$$P = \frac{5}{10} \cdot \frac{2}{10} + \frac{2}{10} \cdot \frac{5}{10} = 0.2$$

. 0.2

: