

$$y = -x^2 + 2x + 8$$

$$y = 0$$

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

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

$$x_1 = \frac{-2+6}{-2} = \frac{4}{-2} = -2$$

$$x_2 = \frac{-2-6}{-2} = \frac{-8}{-2} = 4$$

$$(-2, 0), (4, 0)$$

$$(-2, 0), (4, 0)$$

$$y = -x^2 + 2x + 8$$

$$x = 0$$

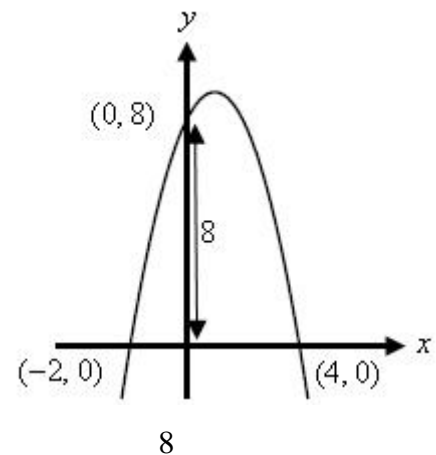
$$y = -0^2 + 2 \cdot 0 + 8 = 8$$

$$(0, 8)$$

$$(0, 8)$$

$$a = -1 < 0$$

$$y = -x^2 + 2x + 8$$



' 8

y -

:

() 96 _____
- x

,3% - 96

: , P -

$$\frac{100+P}{100} \cdot (\text{מחיר קיים})$$

$$\frac{100+3}{100} \cdot x = \frac{103}{100} \cdot x = 1.03x \quad P = 3 ,$$

3% -

P = 3 ,

$$\frac{100+3}{100} \cdot 1.03x = \frac{103}{100} \cdot 1.03x = 1.03 \cdot 1.03x = 1.0609x$$

. 6.70 , , 96

$$1.0609x = 6.7 :$$

:

$$1.0609x = 6.7 \quad /:1.0609$$

$$x = \frac{6.7}{1.0609}$$

$$\boxed{x = 6.315}$$

. 6.315 96 :

. " 1.2 - _____ , -1.2
 ,
 . $\boxed{d = -1.2}$ - $\boxed{a_1 = 78}$

: 16 - , a_{16} ,

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

$$a_{16} = 78 + (16-1) \cdot (-1.2)$$

$$a_{16} = 78 + 15 \cdot (-1.2)$$

$$\boxed{a_{16} = 60}$$

. " 60 :

. $\boxed{d = -5.3}$ - $\boxed{a_1 = 78}$

: 16 - , a_{16} ,

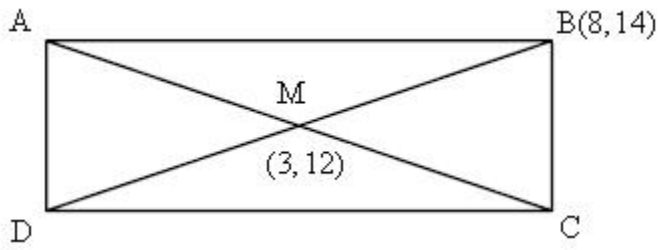
$$a_n = a_1 + (n-1)d$$

$$a_{16} = 78 + (16-1) \cdot (-5.3)$$

$$a_{16} = 78 + 15 \cdot (-5.3)$$

$$\boxed{a_{16} = -1.5}$$

. , . :



$$y_M = \frac{y_B + y_D}{2} \quad x_M = \frac{x_B + x_D}{2}$$

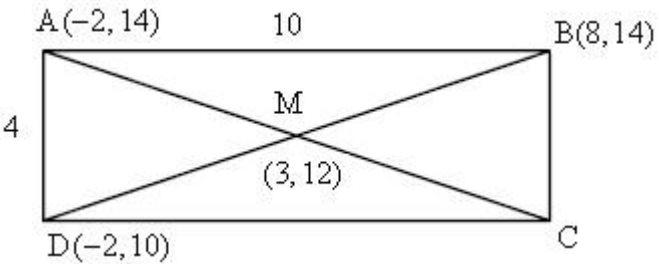
$$12 = \frac{14 + y_D}{2} \quad / \cdot 2 \quad 3 = \frac{8 + x_D}{2} \quad / \cdot 2$$

$$24 = 14 + y_D \quad 6 = 8 + x_D$$

$$\boxed{y_D = 10} \quad \boxed{x_D = -2}$$

D(-2, 10) :

.D(-2, 10) :



A(-2, 14) :

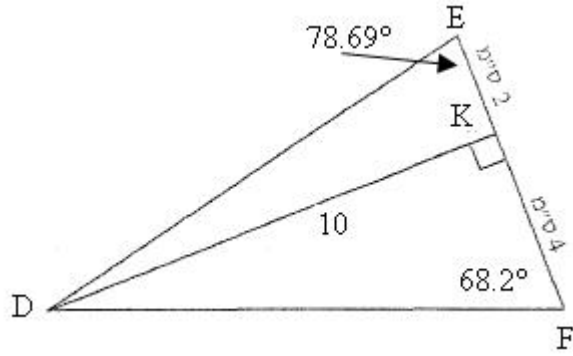
. A(-2, 14) :

$$AB = 8 - (-2) = 10$$

$$AD = 14 - 10 = 4$$

$$S = AB \cdot AD = 10 \cdot 4 = 40 :$$

. " 40 :



DK

. " 30 DEF

$$S = \frac{ah}{2} :$$

$$S = \frac{EF \cdot DK}{2}$$

$$30 = \frac{6 \cdot DK}{2}$$

$$30 = 3 \cdot DK$$

$$\boxed{DK = 10}$$

" 10 DK :

.DEF

 $\triangle DKF$

$$\tan \angle F = \frac{DK}{KF}$$

$$\tan \angle F = \frac{10}{4}$$

$$\boxed{\angle F = 68.2^\circ}$$

 $\triangle DKE$

$$\tan \angle E = \frac{DK}{KE}$$

$$\tan \angle E = \frac{10}{2}$$

$$\boxed{\angle E = 78.69^\circ}$$

$$\angle EDF = 180^\circ - 68.2^\circ - 78.69^\circ = 33.11^\circ :$$

$$\angle D = 33.11^\circ, \angle E = 78.69^\circ, \angle F = 68.2^\circ :$$

36 "

(1,1)	(1,2)	(1,3)	(1,4)	(1,5)	(1,6)
(2,1)	(2,2)	(2,3)	(2,4)	(2,5)	(2,6)
(3,1)	(3,2)	(3,3)	(3,4)	(3,5)	(3,6)
(4,1)	(4,2)	(4,3)	(4,4)	(4,5)	(4,6)
(5,1)	(5,2)	(5,3)	(5,4)	(5,5)	(5,6)
(6,1)	(6,2)	(6,3)	(6,4)	(6,5)	(6,6)

: 6
(6,6) , (5,5) , (4,4) , (3,3) , (2,2) , (1,1)

:
 $p = \frac{6}{36} = \frac{1}{6}$

:
 $\frac{1}{6}$

8

(6,2) , (5,3) , (4,4) , (3,5) , (2,6) : 5

$p = \frac{5}{36} :$

$\frac{5}{36}$ 8

6

(6,5) , (6,4) , (6,3) , (6,2) , (6,1) , (5,6) , (4,6) , (3,6) , (2,6) , (1,6) : 10

$p = \frac{10}{36} = \frac{5}{18} :$

$\frac{5}{18}$ 6

.6

"6

"

"6 1 , 6 0 "

"6

2 "

(6,6) :

$p = \frac{1}{36} :$

$1 - \frac{1}{36} = \frac{35}{36}$ "6

$\frac{35}{36}$ 6