

$$\frac{100+15}{100} \cdot x = \frac{115}{100} \cdot x = 1.15x$$

| () | () | () | |
|--------------------------|---------|-----|--|
| $12 \cdot 1.15x = 13.8x$ | $1.15x$ | 12 | |
| $15x$ | x | 15 | |

$$.13.8x + 15x = 144 : , 144$$

:

$$13.8x + 15x = 144$$

$$28.8x = 144 \quad / : 28.8$$

$$\boxed{x = 5}$$

. 5 , , :

$a_1 = 5,000$: 5,000
 $d = 100$, 100 -

$a_n = a_1 + (n-1)d$
 $a_{12} = 5000 + (12-1) \cdot 100$
 $a_{12} = 5000 + 11 \cdot 100$

$a_{12} = 6100$

6,100

S_{12}

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

$S_{12} = \frac{12}{2} \cdot [2 \cdot 5000 + (12-1) \cdot 100]$

$S_{12} = 6 \cdot (10000 + 11 \cdot 100)$

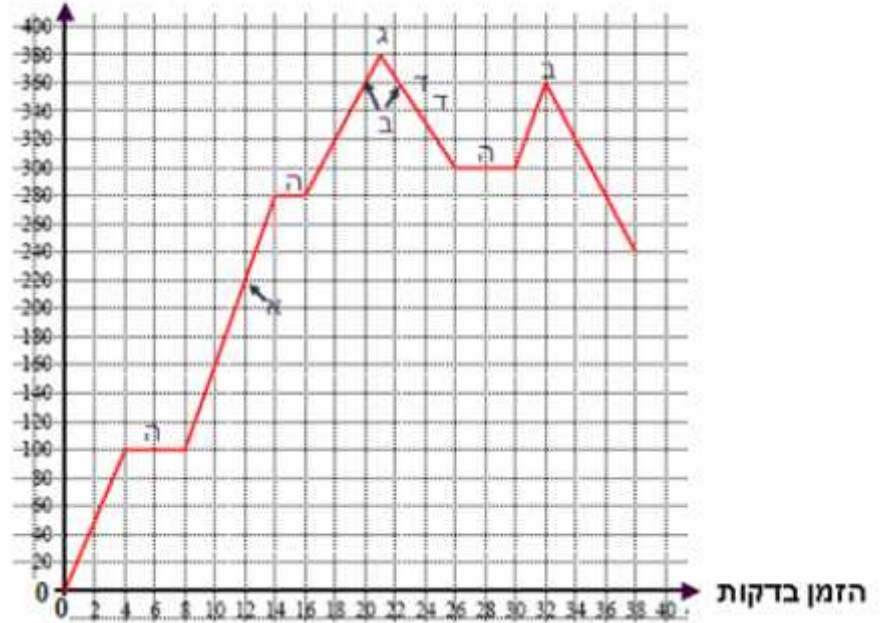
$S_{12} = 66600$

66,600

()

()

כמות המים בליטרים



. 12 .
 . 220 : - (12, 220) - 12 - .
 . 360 .
 . 32 - , 22 - , 20 - : .
 . 22 - 20 - .
 . 380 : .
 . 24 - 22 - , .
 . 320 24 - , 360 22 - .
 . 24 - 22 - : .
 . - .
 . (100) 8 - 4 - .
 . (280) 16 - 14 - .
 . (300) 30 - 26 - .
 ,30 - 26 - 16 - 14 - ,8 - 4 - : .

$y = 4x + 4$

$y = 0$

$y_A = 0$

x -

A

$0 = 4x + 4$

$-4x = 4 \quad /: (-4)$

$x = -1 \rightarrow \boxed{A(-1, 0)}$

$y = -2x + 22$

$y = 0$

$y_F = 0$

x -

F

$0 = -2x + 22$

$2x = 22 \quad /: 2$

$x = 11 \rightarrow \boxed{F(11, 0)}$

. F(11, 0) , A(-1, 0) :

. MF - AC

M

$$\begin{cases} y = 4x + 4 \\ y = -2x + 22 \end{cases}$$

$4x + 4 = -2x + 22$

$6x = 18 \quad /: 6$

$x = 3 \rightarrow y = 4 \cdot 3 + 4 = 16 \rightarrow \boxed{M(3, 16)}$

. M(3, 16) :

. AC

M .

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

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

$3 = \frac{-1 + x_C}{2} \quad / \cdot 2$

$16 = \frac{0 + y_C}{2} \quad / \cdot 2$

$6 = -1 + x_C$

$32 = y_C$

$x_C = 7$

. C(7, 32) :

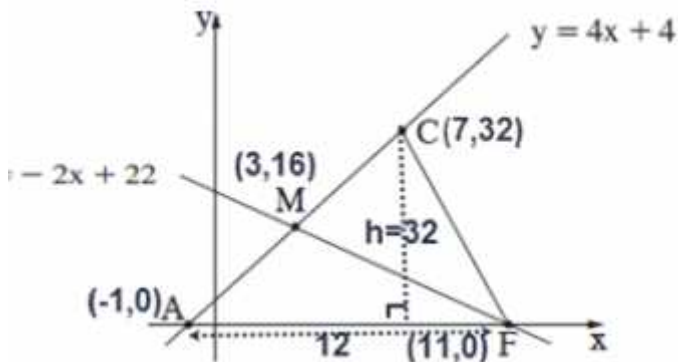
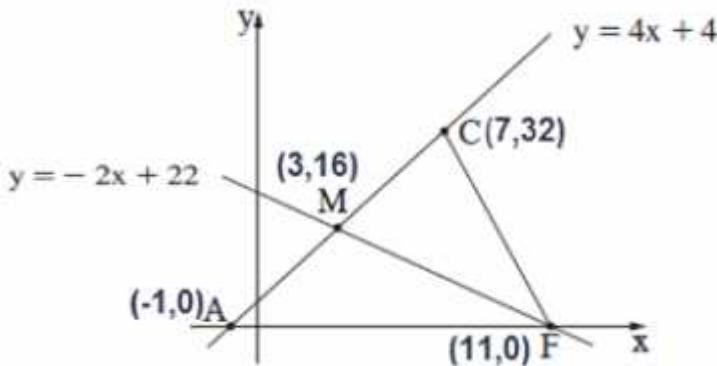
. ΔACF

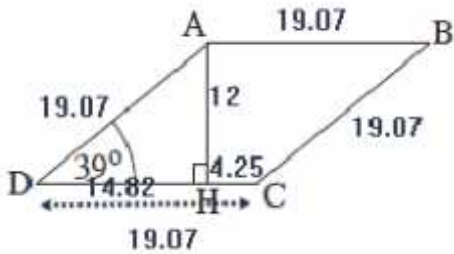
. $AF = 11 - (-1) = 12$

. $h = 32 - 0 = 32 : AF - C -$

$S_{\Delta ACF} = \frac{AF \cdot h}{2} = \frac{12 \cdot 32}{2} = 192$

. " 192 ΔACF :





. AD

ΔADH

$$\sin \sphericalangle ADH = \frac{AH}{AD}$$

$$\sin 39^\circ = \frac{12}{AD} \quad / \cdot AD$$

$$AD \sin 39^\circ = 12 \quad / : \sin 39^\circ$$

$$AD = \frac{12}{\sin 39^\circ}$$

$$AD = \text{" } 19.07$$

$$\text{" } 19.07 \quad :$$

$$4 \cdot 19.07 = \text{" } 76.28$$

$$\text{" } 76.28 \quad :$$

. CH = DC - DH :

CH

ΔADH

$$(AD)^2 = (AH)^2 + (DH)^2$$

$$19.07^2 = 12^2 + (DH)^2$$

$$363.7 = 144 + (DH)^2$$

$$219.7 = (DH)^2$$

$$DH = \text{" } 14.82$$

ΔADH

$$\tan \sphericalangle ADH = \frac{AH}{DH}$$

$$\tan 39^\circ = \frac{12}{DH}$$

$$DH \tan 39^\circ = 12 \quad / : \tan 39^\circ$$

$$DH = \frac{12}{\tan 39^\circ}$$

$$DH = \text{" } 14.82$$

$$, \quad , \quad DC = AD = \text{" } 19.07$$

$$CH = 19.07 - 14.82 = \text{" } 4.25$$

$$\text{" } 4.25 \quad CH \quad :$$

:

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

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

$. 2 + 6 + 12 + 8 + 4 = 32$

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

$\bar{x} = \frac{1 \cdot 4 + 2 \cdot 8 + 3 \cdot 12 + 4 \cdot 6 + 5 \cdot 2}{32} = \frac{90}{32}$

$\bar{x} = 2.8125$

. 2.8125

$. (\frac{32+1}{2} = \frac{33}{2} = 16.5)$

,(32)

| | | | | | |
|----|----|----|----|---|-----|
| 5 | 4 | 3 | 2 | 1 | (x) |
| 2 | 6 | 12 | 8 | 4 | (f) |
| 32 | 30 | 24 | 12 | 4 | |

3

,(3)

3

.(12 - , 3)

. 3 , 2 , 8+12 = 20

$\frac{20}{32} = 0.625$

. 0.625 , 3 2 ,