

$$y - 2x = 2$$

$$y = 2x^2 - 3x + 4$$

$$\begin{cases} y = 2x^2 - 3x + 4 \\ y - 2x = 2 \end{cases}$$

$$: \quad y = 2x^2 - 3x + 4$$

$$2x^2 - 3x + 4 - 2x = 2$$

$$2x^2 - 3x + 4 - 2x - 2 = 0$$

$$2x^2 - 5x + 2 = 0$$

$$x_{1,2} = \frac{5 \pm 3}{4}$$

$$x_1 = \frac{5+3}{4} = \frac{8}{4} = 2 \quad \rightarrow y = 2 \cdot 2^2 - 3 \cdot 2 + 4 \quad \rightarrow y = 6$$

$$x_2 = \frac{5-3}{4} = \frac{2}{4} = 0.5 \quad \rightarrow y = 2 \cdot 0.5^2 - 3 \cdot 0.5 + 4 \quad \rightarrow y = 3$$

$$(2, 6), (0.5, 3) :$$

$$10\% (x + 2000) = \frac{10}{100} (x + 2000) = 0.1(x + 2000)$$

$$30\% x = \frac{30}{100} x = 0.3x$$

$$0.3x = 0.1(x + 2000)$$

$$0.1(x + 2000) = 0.3x$$

$$0.1x + 200 = 0.3x$$

$$-0.2x = -200 \quad /: (-0.2)$$

$$x = 1000$$

$$x = 1000$$

$$a_8 = 3 \cdot a_3 \quad , \quad 3 \quad .$$

$$S_{50} = 2500 \quad , 2500 \quad 50$$

$$\begin{cases} a_8 = 3 \cdot a_3 \\ S_{50} = 2500 \end{cases}$$

$$a_8 = 3 \cdot a_3$$

$$a_1 + 7d = 3 \cdot (a_1 + 2d)$$

$$a_1 + 7d = 3a_1 + 6d$$

$$-2a_1 + d = 0$$

$$S_{50} = 2500$$

$$2500 = \frac{50}{2}(2a_1 + (50-1)d)$$

$$2500 = 25 \cdot (2a_1 + 49d) \quad / : 25$$

$$100 = 2a_1 + 49d$$

$$+ \begin{cases} 0 = -2a_1 + d \\ 100 = 2a_1 + 49d \end{cases}$$

$$100 = 50d \quad / : 50$$

$$\boxed{d = 2}$$

$$0 = -2a_1 + 2$$

$$2a_1 = 2 \quad / : 2$$

$$\boxed{a_1 = 1}$$

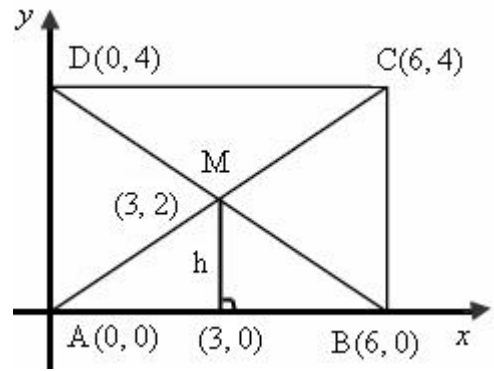
$$a_5 = a_1 + 4d$$

$$a_5 = 1 + 4 \cdot 2$$

$$\boxed{a_5 = 9}$$



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.  
 . x - BC  
 . y - CD

, AD - AB ,  
 C - B x -  
 D - C y -

$$AB \cdot AD$$

$$AB = 6 - 0 = 6, \quad AD = 4 - 0 = 4$$

$$6 \cdot 4 = 24$$

. " 24 :

M

:

$$x_M = \frac{x_B + x_D}{2} = \frac{6 + 0}{2} = \frac{6}{2} = 3$$

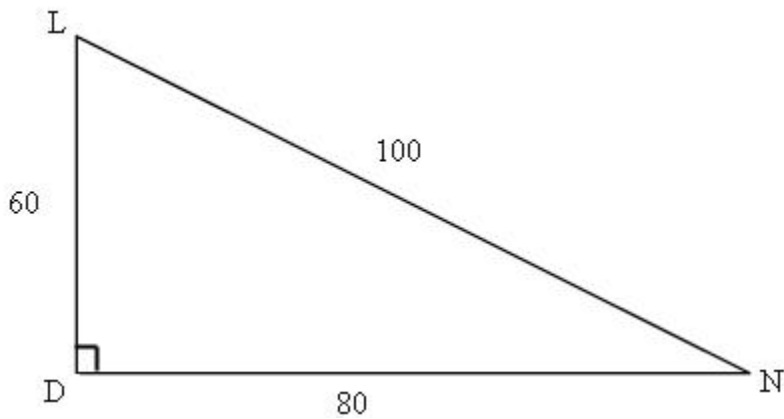
$$y_M = \frac{y_B + y_D}{2} = \frac{0 + 4}{2} = \frac{4}{2} = 2$$

M(3, 2) :

AMB

$$S = \frac{AB \cdot h}{2} = \frac{6 \cdot 2}{2} = 6$$

. " 6 AMB :



$$1 \cdot 100 = \text{ " } 100$$

$\triangle DLN$

$$\cos \angle DLN = \frac{DL}{LN}$$

$$\cos \angle DLN = \frac{60}{100}$$

$$\boxed{\cos \angle DLN = 0.6}$$

$$\angle DLN = 53.13^\circ$$

$$\cos \angle DLN = 0.6 :$$

. DN .

$\triangle DLN$

$$\tan \angle DLN = \frac{DN}{DL}$$

$$\tan 53.13^\circ = \frac{DN}{60}$$

$$60 \tan 53.13^\circ = DN$$

$$\boxed{DN = 80}$$

$$DN = \text{ " } 80 :$$

$$\tan \angle DLN = \tan 53.13^\circ = 1.333 .$$

$$\tan \angle DLN = 1.333 :$$

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$\triangle DLN$

$$\tan \angle DLN = \frac{DN}{DL}$$

$$\tan \angle DLN = \frac{80}{60}$$

$$\boxed{\tan \angle DLN = 1\frac{1}{3}}$$



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10	9	8	7	6	5	4	$x_i$
3	4	6	$x$	6	1	2	$f_i$

"

"

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

$$: ,25\% \quad 8$$

$$\frac{6}{n} = \frac{25}{100} \quad / \cdot 100n$$

$$600 = 25n \quad / : 25$$

$$\boxed{n = 24}$$

. 24

:

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

$$24 = 2 + 1 + 6 + x + 6 + 4 + 3$$

$$24 = 22 + x$$

$$\boxed{x = 2}$$

.7

2 :

:

10	9	8	7	6	5	4	$x_i$
3	5	6	2	6	1	2	$f_i$

1

10

3 .

$$\frac{3}{24} = \frac{1}{8} :$$

$$\cdot \frac{1}{8} :$$

"



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

$$\bar{x} = \frac{4 \cdot 2 + 5 \cdot 1 + 6 \cdot 6 + 7 \cdot 2 + 8 \cdot 6 + 9 \cdot 5 + 10 \cdot 3}{24}$$

$$\bar{x} = \frac{177}{24}$$

$$\boxed{\bar{x} = 7.375}$$

. 7.375

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