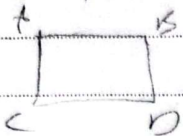


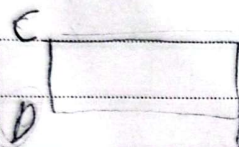
$m = -\frac{1}{-1} A(-2, k) B(4, m)$



$m = \frac{y_B - y_A}{x_B - x_A} = \frac{m - k}{4 - (-2)} = -1 \rightarrow m - k = -4$

$AB = \sqrt{(4+2)^2 + (m-k)^2} = \sqrt{36} = 6$

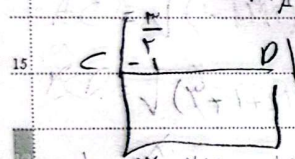
$A(-1, 4) B(3, 1) C(x, y) D(-1-x, y-3)$



$m_A + m_C = m_B + m_D$

$4 + m = 1 + m_D \rightarrow m = m_D - 3$

$m_{AB} = -\frac{1}{m_{AD}} \rightarrow m_{AB} \cdot m_{AD} = -1 \rightarrow -\frac{1}{x} \cdot \frac{y-4}{-1-x-4} = -1 \rightarrow y = -1$

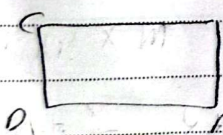


$AB = \sqrt{(3+1)^2 + (1-4)^2} = 5$

$P = (\omega + \frac{\omega}{2}) \times 2 = 1.5$

$AD = \sqrt{(-1-x)^2 + (y-4)^2} = \frac{\omega}{2}$

$m_A + m_D = m_B + m_C \rightarrow 4 + m = 1 + m_C \rightarrow m = m_C - 3$



$x_A + x_D = x_B + x_C$
 $-1 - x = 3 + x \rightarrow x = -2$

$\tan \theta = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3}{4}$



$\alpha = \tan^{-1} \frac{3}{4} = \sqrt{3}$

$y = \frac{-\frac{3}{4}x + 3}{\frac{3}{4}} = -\frac{3}{4}x + 4$

$\Delta = (3)^2 - 4(-\frac{3}{4})(3) = 14$

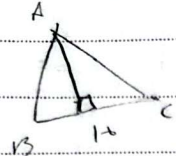
$\frac{1}{\sqrt{3}} = \frac{3 - \sqrt{3}}{3}$

$\frac{-3 \pm \sqrt{14}}{2\sqrt{3}} = \frac{\sqrt{3}}{3}$

Arman

$\frac{x+1}{2} = \frac{5}{2} \rightarrow x = 4$

$A(1,9) \quad B(3,3) \quad C(5,11)$



$$m_{BC} = \frac{11-3}{5-3} = \frac{8}{2} = 4 \quad \text{Then } 2-3 = 2(2-4) \quad 2-3 = 2(-2) \quad 2-2n+3=0$$

$$AH = \frac{|1 \times 9 + (-2 \times 1) + 3|}{\sqrt{1+4}} = \frac{10}{\sqrt{5}} = \frac{10\sqrt{5}}{5} = 2\sqrt{5}$$

$AB = 2 + 2n = 4 \Rightarrow 2 + 2n = 4$

$AC = 2 - 2n = 10 \Rightarrow 2 - 2n = 10$

$BC = 2 - 2n = 10 \Rightarrow -2n = 8 \Rightarrow n = -4$

$AB = 2 + 2n = 4 \Rightarrow 2 + 2(-4) = 2 - 8 = -6$

$BC = 2 - 2n = 10 \Rightarrow 2 - 2(-4) = 2 + 8 = 10$

$11n = 20$

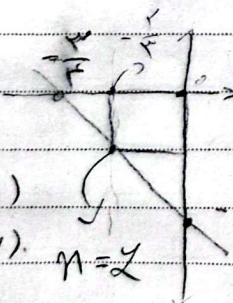
$n = 2 \Rightarrow 2 = 1$

$m_{AC} = \frac{11-9}{5-1} = \frac{2}{4} = \frac{1}{2} \quad 2-1 = \frac{1}{2}(n-4)$

$2 - \frac{1}{2}n - \frac{1}{2} = 0 \Rightarrow 2 - \frac{1}{2}n = \frac{1}{2} \Rightarrow 2 - \frac{1}{2} = \frac{1}{2}n \Rightarrow \frac{3}{2} = \frac{1}{2}n \Rightarrow n = 3$

$|1 \times 9 - 3 \times 3 - 10| = \frac{10}{2} = 5$

$\sqrt{14} = 2$



$m = \frac{-4-0}{0-(-1)} = -4$

$2 + 4 = -1(n-0) \Rightarrow 2 + 4 = -n \Rightarrow 6 = -n \Rightarrow n = -6$

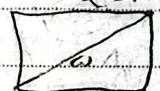
$n = -1n - 4 \Rightarrow 9n = -4 \Rightarrow n = -\frac{4}{9} \Rightarrow 2 = -\frac{4}{9}$

$2 - 9n = 1 \Rightarrow 2 - 9(-\frac{4}{9}) = 2 + 4 = 6$

$2 - 9n = 1 \Rightarrow 2 - 9(-\frac{4}{9}) = 2 + 4 = 6$

$2 - 9n = 1 \Rightarrow 2 - 9(-\frac{4}{9}) = 2 + 4 = 6$

$2 - 9n = 1 \Rightarrow 2 - 9(-\frac{4}{9}) = 2 + 4 = 6$



$AB = \frac{1}{\sqrt{2}} \Rightarrow \frac{\sqrt{2}}{2} = \frac{1}{\sqrt{2}} \Rightarrow \sqrt{2} = 1$

$S = \frac{\sqrt{2} \times \sqrt{2}}{(2-2)(2+2)} = \frac{2}{0} = \text{undefined}$

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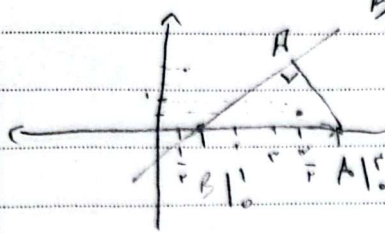
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$$BC = n - 32 = 1$$

$$x = 0 \rightarrow n = 1$$

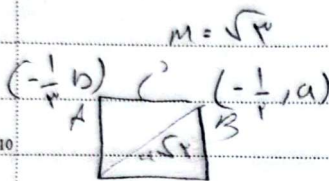
$$AH = \frac{|f - 3x_0 - 1|}{\sqrt{9 + 1}} = \frac{3}{\sqrt{10}}$$

$$AB = 3$$

$$BH^2 + AH^2 = AB^2 \rightarrow BH^2 = 9 - \frac{9}{10} = \frac{81}{10}$$

$$S = \frac{9}{\sqrt{10}} \times \frac{3}{\sqrt{10}} = \frac{27}{10}$$

$$BH = \frac{9}{\sqrt{10}}$$

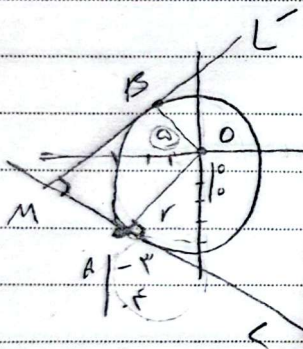


$$r = \frac{a-b}{-\frac{1}{r} + \frac{1}{r}} \rightarrow a-b = -\frac{\sqrt{r}}{4}$$

سوال ۹: (۷)

$$AB = \sqrt{\left(-\frac{1}{r} + \frac{1}{r}\right)^2 + (a-b)^2} = \sqrt{\frac{1}{r^2} + \frac{r}{r^2}} = \frac{2}{r} = \frac{1}{3}$$

$$a = \frac{1}{r} \rightarrow \text{قطر} = \frac{\sqrt{r}}{r}$$



$$r = \sqrt{(-r-0)^2 + (-r-0)^2} = \omega$$

سوال ۱۰: (۷)

$$OA \parallel BM \quad m_{OA} = \frac{-r-0}{-r-0} = \frac{r}{r}$$

$$m_{BM} = \frac{r}{r}$$

$$L: 2 + t = -\frac{r}{r}(n+r)$$

$$m_{ML} = -\frac{r}{r}$$

$$nB + r = nM + 0$$

$$rB - t = 2m$$

$$2 = -\frac{r}{r}n - \frac{2\omega}{r}$$

$$OB = \omega \rightarrow \sqrt{(n-0)^2 + (2-0)^2} = \omega \quad B = \left| \frac{-r}{r} \right| \rightarrow 2 + t = -\frac{r}{r}(n+r)$$

$$(2 + t = -r - r) \times r$$

$$r2 = rn + 2\omega$$

$$12 + 11n = -14\omega$$

$$(-12 + 11n = -10\omega) \times -$$

$$10\omega = -14\omega \rightarrow \omega = -1 \quad \omega = -1$$

$$n \times 2 = 1$$

Arman