

مسئله ۱۴ (۱۴)

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$$2mx + (m^2 - 1)y = 3$$

$$(m^2 - 1)y = -2mx + 3$$

$$y = \left(\frac{-2m}{m^2 - 1} \right)x + \left(\frac{3}{m^2 - 1} \right)$$

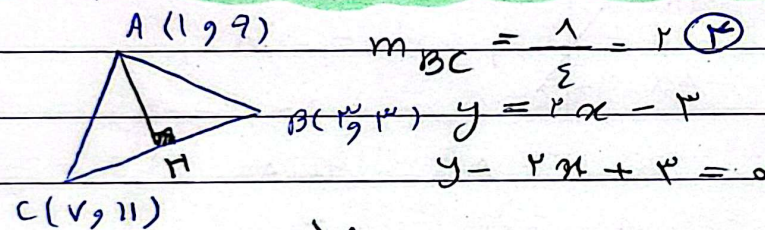
$$\tan \alpha = \frac{y}{x} = \tan 40^\circ = \sqrt{3}$$

$$\frac{-2m}{m^2 - 1} = \sqrt{3} \quad \sqrt{3}m^2 - \sqrt{3} = -2m$$

$$\sqrt{3}m^2 + 2m - \sqrt{3} = 0$$

$$\frac{\sqrt{3}m^2 + 2m - \sqrt{3}}{m^2 - 1} = \sqrt{3}$$

$$\Delta = 14 \quad \left[\frac{2}{\sqrt{3}} \right]$$



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

s.a.m

$$A(-2, k) \rightarrow \frac{y}{x} = -\frac{1}{2}$$

$$B(2, m) \quad S_{ABCO} = ?$$

$$\frac{m - k}{4} = -\frac{1}{4} \quad m - k = -1$$

$$AB = \sqrt{4^2 + (m - k)^2} = \sqrt{34 + 9} = \sqrt{43} = 3\sqrt{5}$$

$$S = (3\sqrt{5})^2 = 45$$

$$A(-1, 2) \quad C(2, 5)$$

$$B(3, 1) \quad D(-x - 1, y + 3)$$

$$x - 1 = -x - 1 + 3 \quad x = 1$$

$$AC = BD$$

$$m_{AB} \times m_{CB} = -1 \rightarrow y = -1$$

$$\sqrt{(x+1)^2 + (y-2)^2} = \sqrt{(x+2)^2 + (y+3)^2}$$

$$(x+1)^2 + (y-2)^2 = (x+2)^2 + (y+3)^2$$

$$x^2 + 2x + 1 + y^2 - 4y + 4 = x^2 + 4x + 4 + y^2 + 6y + 9$$

$$2x - 4y + 5 = 4x + 6y + 13$$

$$-2x - 10y = 8 \quad x + 5y = -4$$

$$AB = \sqrt{9 + \frac{16}{5}} = \sqrt{\frac{41}{5}}$$

$$BC = \sqrt{\frac{9}{5} + 0} = \frac{3}{\sqrt{5}}$$

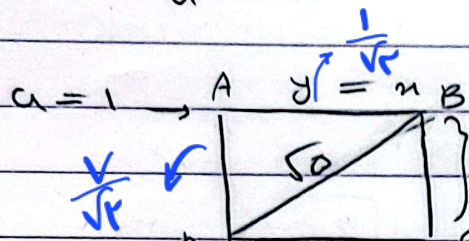
$$P = 2 \left(\frac{\sqrt{41}}{2} + \frac{3}{2} \right) = \sqrt{41} + 3$$

$$y = ax + 1$$

$$y = \left(\frac{1}{a}\right)x + \left(\frac{a-1}{a}\right)$$

$$a = \pm 1$$

$$a = \frac{1}{a} \rightarrow a^2 = 1 \quad a = \pm 1$$

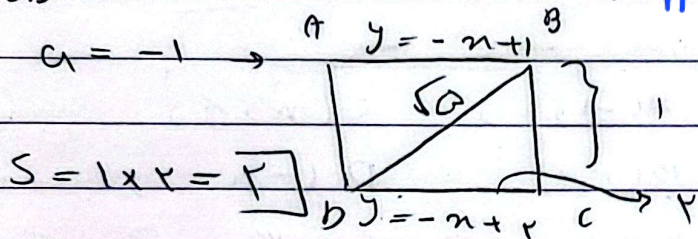


$$AB = \frac{1}{\sqrt{r}}$$

$$S = 1 \times 1 = 1$$

$$S = \frac{1}{\sqrt{r}} \times \frac{1}{\sqrt{r}} = \frac{1}{r}$$

$$a = -1 \rightarrow y = -x + 1$$



$$S = 1 \times 1 = 1$$

$$ky - px - 1v = 0$$

$$AB: y = -px + v$$

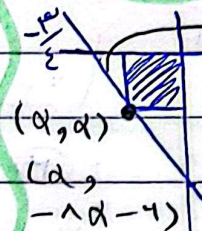
$$AC: y = \frac{p}{r}x + \frac{1v}{r}$$

$$BC: y = \frac{v}{r}x - \frac{1q}{r}$$

$$AB = BC$$

$$-px + v = \frac{v}{r}x - \frac{1q}{r} \rightarrow B\left(\frac{v}{p}, \frac{1}{p}\right)$$

$$BH = AC \quad |B|_{\text{level}} = \frac{|k-a-1v|}{\sqrt{1+q}} = \frac{1r}{a} = \boxed{r, r}$$



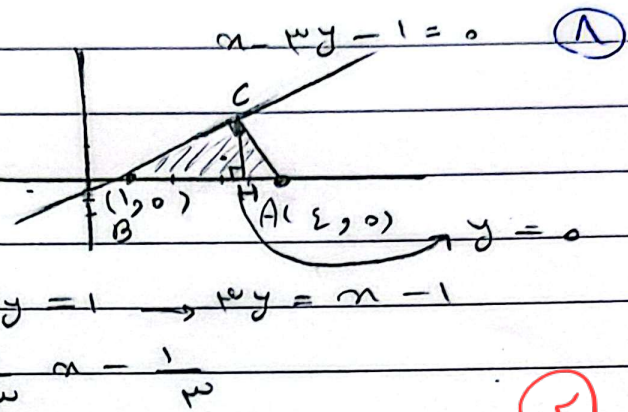
$$m = \frac{\Delta y}{\Delta x} = -1$$

$$y = -x - 1$$

$$a = -a - 1 \quad 9a = -1$$

$$a = -\frac{1}{9} = -\frac{r}{p} \quad \left(-\frac{p}{p}, -\frac{r}{p}\right)$$

$$\text{قطر} = \text{ضلع} \times \sqrt{2} = \frac{r\sqrt{2}}{p}$$



$$AB = \mu$$

$$m_{BC} = \frac{1}{2} \quad m_{AC} = -\frac{1}{2}$$

~~$$AC \Rightarrow y = -x + 1$$~~

$$- \psi_{n+1} = \frac{1}{\psi} \alpha - \frac{1}{\psi} C(\psi, \gamma, \theta, \eta)$$

$$CH = 0,19$$

$$S = \frac{1}{\rho} \times \rho \times a = \frac{1}{\rho} \omega$$

$$\left. \begin{array}{l} (-\frac{1}{4}, a) \\ (-\frac{1}{4}, b) \end{array} \right\} m = \frac{b-a}{-\frac{1}{4}} = \quad \textcircled{7}$$

$$4(b-a) = \sqrt{\mu} \rightarrow b-a = \frac{\sqrt{\mu}}{4}$$

$$\text{الطول} = \sqrt{\frac{1}{\mu_y} + (b-a)^2} = \sqrt{\frac{1}{\mu_y} + \frac{\mu^2}{\mu_y}} = \frac{\mu}{\mu_y}$$

$$\text{ضلع} = \frac{1}{3} \rightarrow \text{قطر} = \frac{\sqrt{3}}{2}$$

$$n_y = -v$$