

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

$\text{میب} = \frac{m-k}{4-(-2)} = -\frac{1}{2} \rightarrow \frac{m-k}{6} = -\frac{1}{2} \rightarrow m-k = -3$

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

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

$CD \parallel BA \Rightarrow \frac{y-1}{x-3} = \frac{4-1}{-1-3} = -\frac{3}{4} \Rightarrow y-1 = -\frac{3}{4}(x-3) \Rightarrow y = -\frac{3}{4}x + \frac{17}{4}$

$CD = \sqrt{\left(\frac{3}{4}\right)^2 + \left(\frac{3}{4}\right)^2} = \sqrt{\frac{9}{8}} = \frac{3}{2\sqrt{2}}$

$AC = \sqrt{(-1-\frac{3}{4})^2 + (4-y)^2} = BD = \sqrt{(3+\frac{3}{4})^2 + (1-y-3)^2}$ $AC = \frac{17}{4}$

$\frac{17}{4} + 1 - 1y + y^2 = \frac{17}{4} + 9 + y^2 + 1y \rightarrow \frac{17}{4} - 1y + y^2 = \frac{17}{4} + 9 + y^2 + 1y \Rightarrow y = -1$

$\text{مساحت} = 2(6 + \frac{17}{4}) = \frac{59}{2}$

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

$\alpha = \tan \theta_0 = \frac{\sqrt{3}}{1} \Rightarrow \frac{-2m}{m^2-1} = \frac{\sqrt{3}}{1} \Rightarrow \sqrt{3}m^2 - \sqrt{3} - 2m = 0$

$\Delta = 4 + 12 = 16$ $\frac{-2 \pm 4}{2\sqrt{3}} = \frac{2}{2\sqrt{3}} = \frac{1}{\sqrt{3}}$ $\frac{-2 \pm 4}{2\sqrt{3}} = \frac{-4}{2\sqrt{3}} = -\frac{2}{\sqrt{3}}$

$m_{BC} = \frac{1-3}{x-3} = 2 \rightarrow y-3 = 2(x-3) \rightarrow y = 2x-3$

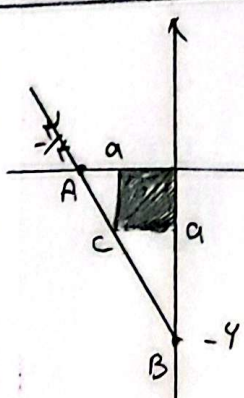
$AB = \frac{1-3}{\sqrt{1+4}} = \frac{-2}{\sqrt{5}} = -\frac{2}{\sqrt{5}}$

$AB = y = -2m+3$

$BC = y = \frac{2x-3}{2} \rightarrow 2x-3 = 2m-3 \rightarrow x=m$

$\rightarrow 2m-3 = 2m-3 \rightarrow m=3 \rightarrow y=1$

$\frac{|1-3+2-1|}{\sqrt{1+4}} = \frac{1}{\sqrt{5}} \Rightarrow \text{مساحت}$



$A = \begin{bmatrix} -\frac{3}{2} \\ 0 \end{bmatrix}$ $B = \begin{bmatrix} 0 \\ -4 \end{bmatrix}$

$a = \frac{0+4}{-\frac{3}{2}-0} = \frac{-4}{-\frac{3}{2}} = \frac{8}{3} = -\frac{8}{3}$

$y+4 = -1(m-0) \rightarrow y = -m-4$

$\text{مساحت} = \frac{\sqrt{3}}{4} a = \frac{\sqrt{3}}{4} \times \frac{8}{3} = \frac{2\sqrt{3}}{3}$

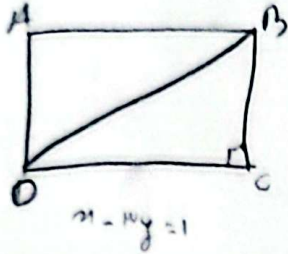
$C = \begin{bmatrix} -a \\ -a \end{bmatrix} \rightarrow -a = 1A - 4 \rightarrow -a = -4 \rightarrow a = 4 = \frac{8}{2}$

$$ay - x = a - 1 \rightarrow y - x = 0 \rightarrow y = x$$

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

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

$$\text{المسافة} = \frac{|1-1|}{\sqrt{1}} = \frac{1}{\sqrt{1}} \rightarrow \text{مسافة} = BC$$



$$MN = Bx^2 + cD^2 \Rightarrow \omega^2 = \frac{1}{x} + cD^2 \rightarrow \sqrt{x\omega - \frac{1}{x}} = cD = \frac{1}{\sqrt{x}}$$

$$A = (-\frac{1}{x}, a) \text{ و } B = (-\frac{1}{x}, b)$$

$$AB \text{ المسافة} = \sqrt{(\frac{1}{x} - \frac{1}{x})^2 + (b-a)^2} = \frac{1}{x} \text{ ح.}$$

$$a = \sqrt{x}$$

$$a = \frac{dy}{dx} = \frac{b-a}{-\frac{1}{x} + \frac{1}{x}} = \sqrt{x} \Rightarrow b - a = \frac{\sqrt{x}}{x}$$

$$\text{المسافة} = \sqrt{x}a = \sqrt{x} \times \frac{1}{x} = \frac{\sqrt{x}}{x}$$

$$\text{المسافة} = a = \frac{x}{x}$$

$$L \text{ المسافة} = -\frac{x}{x}$$

$$L' \text{ المسافة} = \frac{x}{x} = \frac{x'}{y'} \rightarrow \sqrt{x'^2 + y'^2} = \omega \rightarrow x'^2 + y'^2 = \omega^2 \rightarrow \frac{1}{x} y' + y' = \omega \rightarrow \frac{1}{x} y' + y' = \omega$$

$$x' = -x \rightarrow \frac{\omega}{x} y' = \omega$$

$$y' = \omega \rightarrow \frac{\omega}{x} y' = \omega$$

$$\omega = \sqrt{1+x^2} = \omega$$

$$L = \frac{x}{y} + \frac{y}{x} - \frac{1}{x} \rightarrow y = \frac{x}{y} + \frac{y}{x} - \frac{1}{x} \rightarrow y = \frac{x}{y} + \frac{y}{x} - \frac{1}{x}$$

$$L' = \frac{y}{x} - \frac{x}{y} - \frac{1}{x} \rightarrow \begin{bmatrix} -1 \\ -1 \end{bmatrix} \Rightarrow xy = 1$$

