

$$B(t, m), A(-r, u)$$

$$m = -\frac{1}{r}$$

$$J_{AB} = \sqrt{(x-m)^2 + (-y-c)^2} = \sqrt{a^2 + r^2 u^2} = r_0 \quad (1)$$

$$y = -\frac{1}{4}x + b$$

$$m = \frac{k-m}{-r-p} = -\frac{1}{f} \rightarrow k-m = p$$

$$S_{\mu\nu} = \sqrt{r_0} \times \sqrt{r_0} = r_0$$

$$A(-1, x), B(x, 1), C(\underline{m}, y), D(-1+x, y+1)$$

$$AB \parallel CD \rightarrow \frac{r_1}{-1-r} = \frac{r}{r_{n+1}} \rightarrow r_{n+1} = r \rightarrow r = \frac{r}{r}$$

$$AB \parallel CD \rightarrow \frac{r-1}{-1-r} = \frac{-r}{r+1} \rightarrow r+1 = r \rightarrow r = \frac{r}{1} \rightarrow C. \left(\frac{r}{r+1} \right)$$

$$AB \perp BC \rightarrow -\frac{y-1}{x} \times \frac{y-1}{-\frac{x}{2}} = -1 \rightarrow \frac{y-1}{x} = -1 \rightarrow y-1 = -x$$

$$\lim_{\omega \rightarrow 0} (AB + BC) \left(\omega + \frac{\partial}{T} \right) = 10$$

A

$$\rightarrow \left(\frac{1}{r} \right)^{\frac{1}{2}} = \frac{1}{\sqrt{r}} \quad \text{or} \quad \frac{1}{\sqrt{r}} = \frac{1}{\sqrt{r}} \quad \text{or} \quad \frac{1}{\sqrt{r}} = \frac{1}{\sqrt{r}}$$

$$r_{mm} + (m^r - 1)y = r$$

$$\tan \alpha = \sqrt{\mu}$$

۴۰۰ اضافہ و متبادلات

$$\frac{-vm}{m^2-1} = \sqrt{r} \rightarrow -vm = \sqrt{r} m^2 - \sqrt{r} \rightarrow \sqrt{r} m^2 + vm - \sqrt{r} = 0$$

$$\Delta = r - r(-r)(r) = r + r \times r = 14$$

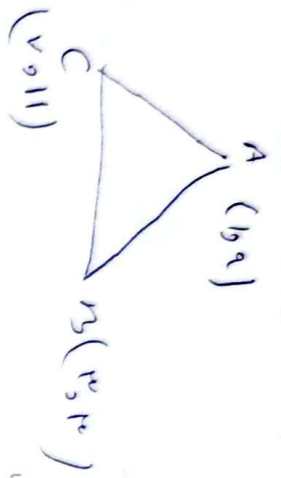
$$\alpha\beta = \frac{\sqrt{\Delta}}{|\alpha|}$$

$$\frac{\sqrt{12}}{\sqrt{2}} = \frac{2}{\sqrt{2}} = \frac{2\sqrt{2}}{2}$$

(4)

$$A(1, 2) \quad B(4, 3) \quad C(2, 1)$$

$$m_{BC} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 1}{4 - 2} = 1$$



$$y = y_1 + b \rightarrow y = 2 + 1(x - 2) \rightarrow y = x$$

$$y = x \rightarrow m_{AC} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 1} = -1$$

$$m_{AB} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 2}{4 - 1} = \frac{1}{3}$$

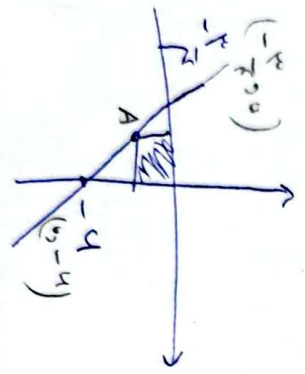
$$A(1, 2) \rightarrow \sqrt{(1-1)^2 + (2-2)^2} = \sqrt{0+0} = 0$$

(a)

$$AB: y + 2x = 4 \quad AC: y - 2x = 2 \quad BC: y - 2x = -2$$

$$B \begin{cases} y + 2x = 4 \\ y - 2x = -2 \end{cases} \rightarrow y = 1 \rightarrow B(1, 1)$$

$$m_{AB} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{1 - 1} = \text{undefined}$$



$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 1}{1 - 1} = \text{undefined}$$

$$y = -x + b \rightarrow b = 2 \rightarrow y = -x + 2$$

$$y = -x + 2 \rightarrow y = -1 + 2 = 1 \rightarrow y = 1$$

$$y = x \rightarrow y = 1 \rightarrow x = 1 \rightarrow A(1, 1)$$

$$y = ax + 1 \xrightarrow{(5,1)} \text{intercept}$$

← 12.11

note (1,1) is the center of the circle

$$y = ax$$

$$\left| \frac{1-a}{\sqrt{1+a^2}} \right| = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

distance



$$10 - \frac{1}{2} = \frac{\sqrt{2}}{2}$$

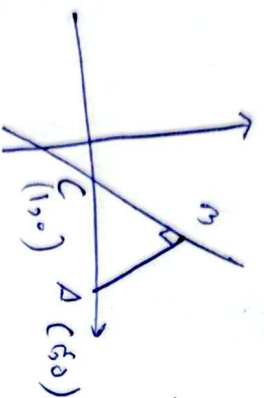
$$S = \frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} = \frac{1}{2} = \frac{\sqrt{2}}{2}$$

$$xy = m-1 \rightarrow y = \frac{m-1}{x} \quad (5,0)$$

distance

$$d = \left| \frac{f-1}{\sqrt{1+0}} \right| = \frac{1}{\sqrt{10}}$$

$$C = \frac{1}{\sqrt{10}} \rightarrow a = (1,0)$$



$$MA = -1 \quad (5,0) \rightarrow y = -1x + 1 \rightarrow -1x + 1 = \frac{m-1}{x}$$

$$BC = \sqrt{\left(\frac{1}{x}\right)^2 + \left(\frac{1}{x}\right)^2} = \frac{\sqrt{2}}{x} \rightarrow S = \frac{1}{x} \times \frac{\sqrt{2}}{x} \times \frac{1}{x}$$

$$= \frac{\sqrt{2}}{x^3}$$

$$\left(-\frac{1}{x}, 0 \right) \text{ and } \left(-\frac{1}{x}, 5a \right)$$

$$y = \sqrt{1} \quad m+1 \quad C$$

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

$$a-b = -\frac{\sqrt{1}}{x} \quad \left(-\frac{1}{x} + \frac{1}{x} \right)^2$$

$$\frac{a-b}{-\frac{1}{x} + \frac{1}{x}} = -\frac{1}{x}$$

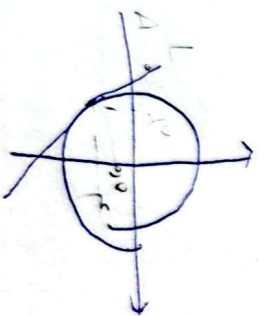
distance

$$P_{BC} = \sqrt{\left(\frac{a-b}{x} + \left(-\frac{1}{x} + \frac{1}{x} \right)^2 \right)} = \sqrt{\frac{1}{x^2} + \frac{1}{x^2}} = \frac{\sqrt{2}}{x} = \frac{1}{x}$$

$$d = \frac{1}{x} \quad a = \frac{1}{x} \sqrt{1}$$

(10)

$$(-x, -1)$$



$$A \rightarrow m = -1 - 1 = -1$$

$$y = -1x + 1 = -1 \quad (-1, 0)$$

$$\rightarrow -1x - 1 = 1$$

