

ب ۱۱ رسک رضوانی داد

$$\sqrt{\left(\omega + \frac{\omega}{r}\right)^2 + \left(\frac{\omega}{r}\right)^2} = \omega$$

$$\text{ضلع} = \sqrt{\Delta x^2 + \Delta y^2}$$

$$x-1 = y-1-x \Rightarrow x = 1/2$$

$$\Delta y = y_1 - y_2 = -1 + k - 1 - k = -2$$

نقطه A

$$\sqrt{2\omega} = \omega$$

$$m_{AB} = -\frac{2}{\omega} \Rightarrow m_{AC} = \frac{\omega}{2} \rightarrow y = \frac{\omega}{2}x + \frac{1}{\omega} \Rightarrow$$

$$5 = 2 + 9 = \frac{\omega}{2}$$



$$C(1/2, \frac{\omega}{2}) \Rightarrow \sqrt{\frac{1}{4} + \frac{\omega^2}{4}} = \frac{\omega}{2}$$

$$m_{BC} = 2 \Rightarrow y = 2x - 2$$

$$\tan \theta = m = \frac{-2m}{m^2 - 1} = \sqrt{2}$$

$$\frac{|2 - 2 - 9|}{\sqrt{5}} = \frac{1}{\sqrt{5}} = \frac{2\sqrt{5}}{5}$$

$$\sqrt{2}m^2 + 2m - \sqrt{2} = 0 \rightarrow \frac{\sqrt{2}}{|a|} = \frac{f}{\sqrt{2}}$$

$$\frac{4x}{-2} + \frac{y}{-2} = 1 \Rightarrow 4x + y = -2$$

$$\text{فاصله} = \text{قطر} = \frac{|4|}{\sqrt{17}} = \frac{4}{\sqrt{17}}$$

$$\frac{y - 1}{2} = 2 - x$$

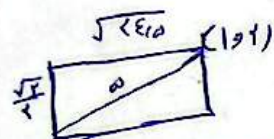
$$11x = 2 \Rightarrow x = \frac{2}{11} \quad y = 1 \quad B(2/11, 1)$$

$$\frac{|2 - 9 - 11|}{5} = \frac{22}{5} = 4.4$$

$$a = \frac{1}{a} \Rightarrow a = \pm 1$$

$-1 \Rightarrow$ نقطه در یک ربع است
 $1 \Rightarrow$ نقطه در ربع دیگر

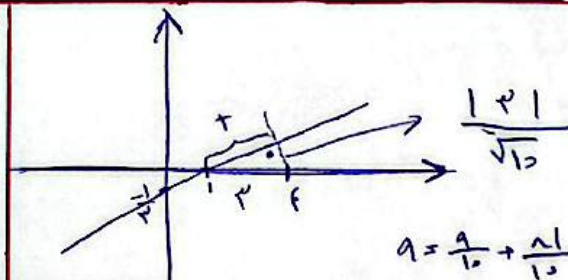
$$\left. \begin{matrix} y = x \\ y = x + 1 \end{matrix} \right\} \Rightarrow \text{زاویه} = \frac{\sqrt{2}}{2}$$



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

$$d = \sqrt{\Delta x^2 + \Delta y^2} = \sqrt{\frac{1}{4} + \left(\sqrt{2} \times \frac{1}{2}\right)^2} = \sqrt{\frac{3}{4}} = \frac{\sqrt{3}}{2}$$

$$\text{قطر} = \sqrt{2}d = \frac{\sqrt{2}}{2}$$



$$a = \frac{9}{10} + \frac{1}{10} \Rightarrow t = \frac{9}{10}$$

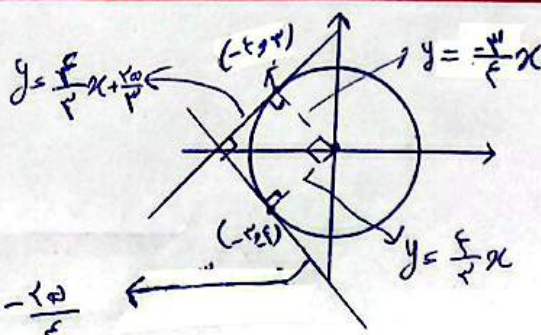
$$\frac{1}{2} \times \frac{2}{\sqrt{10}} \times \frac{9}{10} = \frac{9}{100}$$

$$\frac{5}{2}x + \frac{1}{2} = \frac{3}{2}x - \frac{1}{2}$$

$$\frac{1}{2}x = -\frac{1}{2} \Rightarrow x = -1$$

$$y = -1$$

$$-x - 1 = 1$$



$$y = \frac{3}{5}x - \frac{1}{5}$$