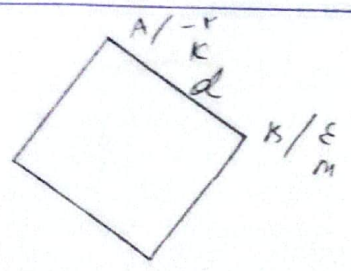


19

دائرة
A نصف دائرة : ربع

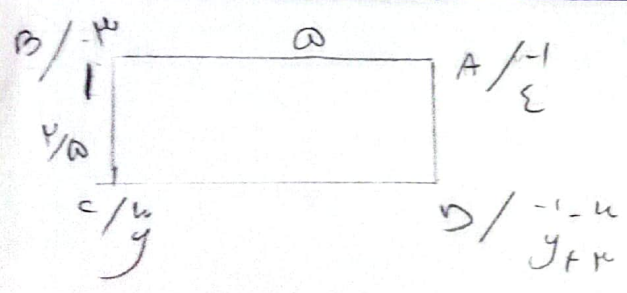


$$-\frac{1}{r} = \frac{k-m}{-q} \rightarrow q = r(k-m) \rightarrow k-m = \mu$$

$$d = \sqrt{dx^2 + dy^2} = \sqrt{\mu^2 + q} \rightarrow \sqrt{\epsilon \gamma}$$

$$S = d^2 = \epsilon \omega$$

2



$$u_B + u_D = u_A + u_C$$

$$r - u = -1 + u \rightarrow u = 1/\omega$$

$$y_B + y_D = y_A + y_C$$

$$r + y = \epsilon + y$$

المساحة الكلية = المساحة المربعة + المساحة المثلثية

$$r(y/\omega + y) = 1/\omega$$

$$M_{AB} = -\frac{\mu}{\epsilon} \rightarrow M_{BC} = \frac{\epsilon}{\mu} = \frac{y-1}{\frac{1}{\omega} - \mu} \rightarrow -y = \mu y - \mu$$

$$y = -1$$

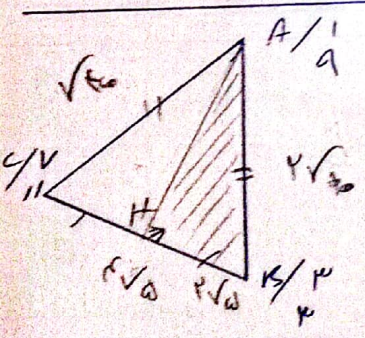
$$r_m u + (m^2 - 1)y = \mu$$

$$m = \tan \theta_0 = \sqrt{\mu} = \frac{-r_m}{m^2 - 1} \rightarrow \sqrt{\mu} m^2 + r_m - \sqrt{\mu} = 0$$

$$\Delta = \epsilon + 14 = 14$$

$$\frac{\epsilon}{\sqrt{\mu}}$$

$$\frac{\sqrt{\Delta}}{1/\omega}$$



$$AH^2 + BH^2 = AB^2$$

$$AH^2 + y_0 = r_0 \rightarrow AH = \sqrt{y_0}$$

المساحة الكلية = المساحة المربعة + المساحة المثلثية

2

$$AB: y = v - ru$$

$$AC: y = \frac{1v + \mu u}{\epsilon}$$

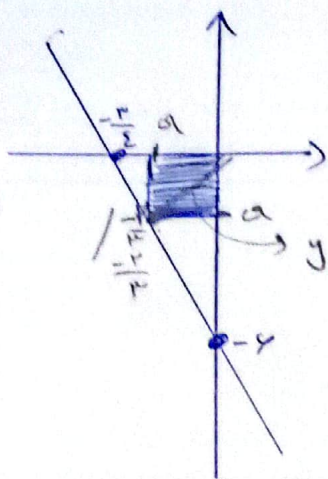
$$BC: y = \frac{v u - 14}{r}$$

$$\begin{cases} y + ru = v \\ ry - vu = -14 \end{cases} \Rightarrow \frac{r}{\mu}$$



2

$$BH = \frac{|au + sy + c|}{\sqrt{a^2 + s^2}} = \frac{|-14 + \epsilon - 14|}{\sqrt{14 + 4}} = \frac{r}{\epsilon} = \frac{r}{\epsilon}$$



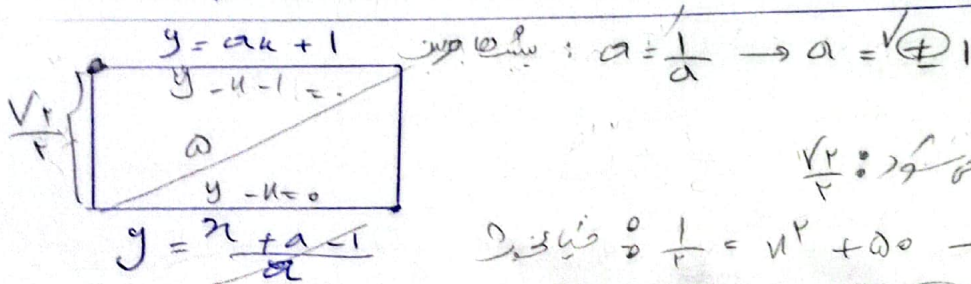
$$\left| \frac{-\frac{x}{2}}{\frac{1}{2}} \right| = \frac{y}{-y} \rightarrow \frac{\frac{x}{2}}{\frac{1}{2}} \rightarrow -\frac{y}{x} \rightarrow -1 \quad \boxed{y = -x - y}$$

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

$$y - \frac{y}{2} = -\frac{y}{2} \rightarrow \frac{y}{2} = -\frac{y}{2} \rightarrow \boxed{y = -y}$$

$$y = -y \rightarrow \boxed{y = -\frac{y}{2}}$$

$$\text{طول وتر} = \sqrt{2 \times \frac{y}{2}} \rightarrow \sqrt{\frac{y}{2}} \rightarrow \boxed{\frac{\sqrt{y}}{2}}$$

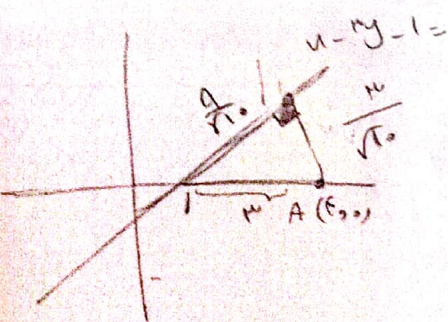


$$y = ax + 1 \quad \text{و } y = x - 1 \rightarrow a = \frac{1}{a} \rightarrow a = \pm 1$$

طول وتر از دو ضلع با هم جمع می شود

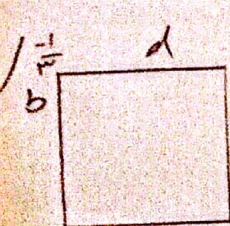
$$\frac{y}{2} = \frac{1}{2} = \frac{y}{2} + 0 \rightarrow x = \frac{y}{\sqrt{2}}$$

$$S = \frac{y}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \Rightarrow \boxed{\frac{y}{2}}$$



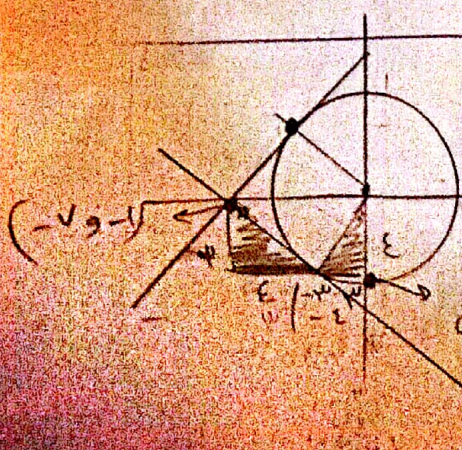
$$d = \frac{|ax + by + c|}{\sqrt{a^2 + b^2}} = \frac{y}{\sqrt{2}}$$

$$S = \frac{A}{\sqrt{2}} \times \frac{y}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \rightarrow \frac{y}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$



$$\frac{1}{\sqrt{2}} = \frac{b - a}{\frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}}} \rightarrow \frac{b - a}{\frac{2}{\sqrt{2}}} = \frac{1}{\sqrt{2}}$$

$$d = \sqrt{a^2 + b^2} = \sqrt{\frac{1}{2} + \frac{1}{2}} \rightarrow \boxed{\frac{\sqrt{2}}{2}}$$



دستگاه معادلات خطی

✓

حاصل نوشته شود