

$$ry = rx - 1 \Rightarrow y = \left(\frac{r}{r}\right)x - \frac{1}{r}$$

$$ry = r - rx \Rightarrow y = 1 - \left(\frac{r}{r}\right)x$$

$$y = x - \frac{r}{rw}$$



$$\begin{cases} rx - ry = 1 \\ rx + ry = r \end{cases} \Rightarrow \begin{cases} rx - ry = 1 \\ rx - ry = r \end{cases}$$

$$-1ry = -r$$

$$y = \frac{r}{rw} \quad x = \frac{r}{rw}$$

$$\tan \theta = 1$$

$$\frac{y}{x} = \frac{a}{b}$$

$$\frac{y}{x} = \frac{a}{b}$$

$$b = \frac{r}{rw}$$

$$|rx + ry - r| = |x - y - 1|$$

$$2x + y = r$$

$$2x + y = r$$

$$y = -rx + r \quad m = -r$$

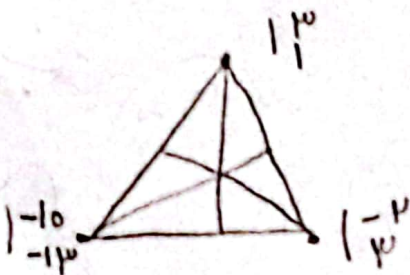
$$y = rx + r \quad m = r \quad \tan \alpha = \left| \frac{r - (-r)}{1 - r} \right| = 1$$

$$\alpha = 45^\circ$$

$$AB = \sqrt{(-1)^2 + (4)^2} = 10$$

$$AB_{\text{mid}} = M = \left| \frac{1 \cdot 6 - 4}{r} = -\frac{1}{r} \Rightarrow x \right|$$

$$\left| \frac{r - 1}{r} = 1 \Rightarrow y \right|$$



$$S = \frac{1}{r} \begin{vmatrix} r & 1 & 1 \\ -r & r & 1 \\ -1 & -1 & 1 \end{vmatrix} = r$$

$$x_G = \frac{-r}{r} = -r$$

$$y_G = -r \rightarrow \begin{vmatrix} -r \\ -r \end{vmatrix}$$

الف - 4

1, 0

الف - 7

1, 0

8, 20

$$m = \frac{\Delta y}{\Delta x} = \frac{-4}{1} = -4$$

$$y = -4x + b \rightarrow 11$$

$$y = -4x + 11$$

1- الف

ب

$$y = -4x + b \rightarrow 11$$

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

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

$$y = -4x + 11$$

2- الف

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

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

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

$$y = 3x - 10$$

3- الف

$$\tan 40^\circ = \sqrt{3}$$

$$y = \sqrt{3}x + b \rightarrow 4\sqrt{3} - 2$$

$$y = \sqrt{3}x + 4\sqrt{3} + 2$$

$$\sqrt{(\Delta x)^2 + (\Delta y)^2} = \sqrt{25} = 5$$

4- الف

5

$$\frac{|ax + by + c|}{\sqrt{a^2 + b^2}} = \frac{|1x + 4y - 10|}{\sqrt{1^2 + 4^2}} = \frac{15}{5} = 3$$

6- الف

$$4x + 4y = 12$$

$$4x + 4y = 12 \Rightarrow 4x + 4y = 10$$

7- الف

8

$$\frac{4x + 4y - 10}{\sqrt{4^2 + 4^2}} = \frac{12 - 10}{\sqrt{32}} = \frac{2}{\sqrt{32}} = \frac{1}{\sqrt{8}} = \frac{1}{2\sqrt{2}}$$

9- الف