

18, 25

$$\frac{m-k}{4} = \frac{1}{r} \Rightarrow |m-k| = r = dy$$

$$AB = \sqrt{r^2 + r^2} = r\sqrt{2}$$

(2)

(1, 75)

مساحت روم خفایم!

$$AB = \sqrt{r^2 + r^2} = r\sqrt{2}$$

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

$$m_1 \times m_2 = -1 \Rightarrow \frac{r}{-r} = \frac{y-1}{-r} \Rightarrow y = -1$$

$$b = \frac{r}{\sqrt{\frac{r^2}{r^2} + r^2}} = \frac{r}{\sqrt{1+r^2}}$$

$$P = 2 \left(2 + \frac{2}{r} \right) = 12$$

(2)

$$y = \frac{-rm}{m^2-1}x + \frac{r}{m^2-1}$$

$$\Rightarrow \sqrt{r^2 m^2 + r^2 m} - \sqrt{r} = 0$$

$$\frac{\sqrt{2}}{104} = \frac{r}{\sqrt{2}}$$

$$a = \tan \alpha = \sqrt{r}$$

$$b = \frac{r}{m} - r = y - rm + r$$

$$m = r \Rightarrow y = rm + b \Rightarrow b = -r$$

$$AH = \frac{|9 - (-2 + 1)|}{\sqrt{1^2 + (-1)^2}} = \frac{10}{\sqrt{2}}$$

(2)

$$-rm + v = \frac{v}{r}x - \frac{19}{r} \Rightarrow m = r \text{ and } y = 1$$

$$\Rightarrow BH = \frac{|(1-1)-19|}{\sqrt{1^2 + (-1)^2}} = \frac{19}{\sqrt{2}}$$

(2)

$$-4m - \frac{r}{r}y = \frac{9}{r} \xrightarrow{m=y} -\frac{5v}{r}m = \frac{9}{r} \Rightarrow m = -\frac{5}{r} \text{ and } y = \frac{5}{r}$$

$$\Rightarrow \frac{5}{r}\sqrt{2}$$

(2)

$$\left. \begin{matrix} am+1 \\ \frac{1}{a}m + \frac{a-1}{a} \end{matrix} \right\} \Rightarrow a = \frac{1}{a} \Rightarrow a^2 = 1 \Rightarrow a = \pm 1$$

$$a = 1 \Rightarrow \begin{cases} y = m+1 \\ y = m \end{cases}$$

$$a = -1 \Rightarrow \begin{cases} y = -m+1 \\ y = -m-1 \end{cases}$$

(1, 75)

$$d_1 = y - m = 1$$

$$d_2 = y - m = 0$$

$$\Rightarrow \frac{|1-0|}{\sqrt{1+1}} = \frac{1}{\sqrt{2}} \Rightarrow (I)$$



$$\sqrt{1^2 + 1^2} = \sqrt{2} = \frac{v\sqrt{2}}{r}$$

$$S = \frac{v}{r}$$

مساحت روم خفایم!

$$y = -xm + b \rightarrow b = 12 \Rightarrow y = xm + 12$$

سوال گنگو

(۲)

$$\frac{1}{2}m - \frac{1}{2} = xm + 12 \Rightarrow m = 24, y = 9 \Rightarrow B(24, 9) \text{ I I J}$$

$$0 = \frac{1}{2}m - \frac{1}{2} \Rightarrow m = 1 \Rightarrow y = 0 \Rightarrow C(1, 0) \text{ I J}$$

$$A = \sqrt{250} = 5 \Rightarrow BH = 9 \Rightarrow S_{ABC} = \frac{1}{2}TC \checkmark A(5, 0) \text{ I}$$

$$m = \frac{b-a}{\frac{1}{2}} \Rightarrow b-a = \frac{1}{2} \text{ I}$$

$$AB = \sqrt{\left(\frac{1}{2}\right)^2 + \left(\frac{1}{2}\right)^2} = \frac{1}{\sqrt{2}} \text{ (۲)}$$

$$\Rightarrow \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \checkmark$$

$$m_1 = \frac{1}{2}$$

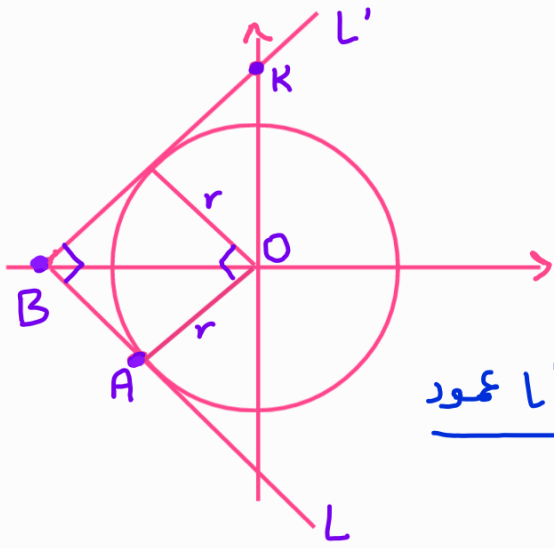
$$m_1 \times m_2 = -1$$

$$\Rightarrow m_2 = -\frac{1}{2} \Rightarrow r = \sqrt{2^2 + 2^2} = 2 \checkmark$$

$$y = \frac{1}{2}x + b \rightarrow (2, 0 - \frac{1}{2} \times 2)$$

$$\Rightarrow \frac{1}{2}x = 2 \Rightarrow x = 4 \quad y = -1 \checkmark \Rightarrow \sqrt{2^2 + \frac{9}{14} \times 2} = \left| \frac{2}{\sqrt{14}} \right|$$

(۱/۱۵)



$$m_{OA} = \frac{4}{3} \xrightarrow{\text{مخودبر } L} m_L = -\frac{3}{4} \quad (10)$$

$$L: y + 4 = -\frac{3}{4}(x + 3) \rightarrow y = -\frac{3}{4}x - \frac{25}{4}$$

$$\xrightarrow{\text{ل و ل' عمود}} m_{L'} = \frac{4}{3} \rightarrow L': y - \frac{4}{3}x - K = 0$$

$$OL' = OA = \sqrt{9 + 16} = 5 \quad \text{شعاع}$$

$$OL' = \frac{|1 - K|}{\sqrt{1 + \frac{16}{9}}} = 5 \rightarrow K = \frac{25}{3} \rightarrow L': y = \frac{4}{3}x + \frac{25}{3}$$

$$\text{مختصات B محل تقاطع ل و ل'} \Rightarrow (-7, -1) \xrightarrow{\text{حاصل ضرب}} \boxed{7}$$