

۱۵، ۷۵

تشریح شماره ۱۷

عزیزان حاج علیزاده

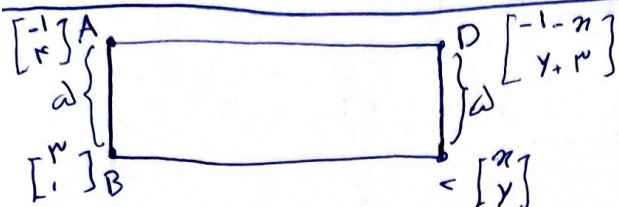
$$\frac{m-k}{f-(-r)} = \frac{-1}{r}$$

$$m-k = -r$$

(۲)

$$\sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2} = \sqrt{(m-k)^2 + (f-(-r))^2} = \sqrt{f\omega}$$

$$S = \sqrt{f\omega} \times \sqrt{f\omega} = f\omega \checkmark$$



$$x-1 = -x+a$$

$$2x = a$$

$$x = 1, \omega$$

$$\sqrt{(f-1)^2 + (-1-r)^2} = \omega$$

$$\frac{f-1}{-1-r} = \frac{-r}{f} \rightarrow \frac{r}{f}$$

$$\frac{f}{r} = \frac{1-y}{1,\omega}$$

$$y = -1$$

$$r \times \omega + r \times \frac{\omega}{f} = 1\omega \checkmark$$

$$\sqrt{(1-(-1))^2 + (1,\omega)^2} = \frac{\omega}{r}$$

$$(m^2-1)y = -r_m x + r$$

$$\frac{-r_m}{m^2-1} = \sqrt{r}$$

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

$$m^2 + r_m - r = 0$$

$$(m+r)(m-1) = 0$$

$$\left. \begin{aligned} m &= \frac{-r}{\sqrt{r}} \\ m &= \frac{1}{\sqrt{r}} \end{aligned} \right\} \text{دو جواب}$$

$$\frac{1}{\sqrt{r}} - \frac{-r}{\sqrt{r}} = \frac{r}{\sqrt{r}} \checkmark$$

$$\frac{11-r}{v-r} = r$$

$$y = rx - r$$

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

$$q = \frac{-1}{r} + b$$

$$b = \frac{19}{r}$$

$$y = \frac{-1}{r} x + \frac{19}{r}$$

$$\begin{bmatrix} \omega \\ v \end{bmatrix} \begin{bmatrix} 1 \\ q \end{bmatrix}$$

$$rn-r = \frac{1}{r} x + \frac{19}{r}$$

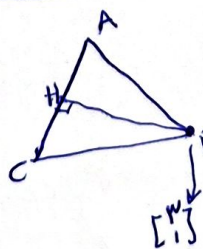
$$rn-r = -x+19$$

$$\omega x = r\omega$$

$$x = \omega$$

$$y = v$$

$$\sqrt{(9-v)^2 + (1-\omega)^2} = \sqrt{r\omega} \checkmark$$



$$y+rx-v=0 \quad ry+rx-1f=0$$

$$ry-vx+19=0$$

$$ry+rx-1f = \frac{r}{y-v} x + 19$$

$$\frac{r}{y-v} x + \omega = \frac{r}{f} x + \frac{19}{r}$$

$$\frac{r}{f} = \frac{19}{r} x$$

$$x = \frac{9}{r\omega}$$

$$y = \frac{11r}{r\omega}$$

$$y = \frac{-r}{r} x + b$$

$$1 = -r + b$$

$$b = \omega$$

$$y = \frac{r}{r} x + \omega$$

$$\left. \begin{aligned} n &= r \\ y &= 1 \end{aligned} \right\} \checkmark$$

$$\sqrt{\left(r - \frac{2}{\omega}\right)^2 + \left(1 - \frac{11r}{r\omega}\right)^2} = \sqrt{r\omega} \checkmark$$

$$\begin{bmatrix} q \\ -9 \end{bmatrix} \quad \begin{bmatrix} -\frac{w}{r} \\ 0 \end{bmatrix} \quad \frac{-9}{\frac{w}{r}} = -\lambda$$

$$y = -\lambda x - 9$$

$$x = -\lambda x - 9$$

$$9x = -9$$

$$x = -\frac{1}{9}$$

$$y = \frac{1}{9} \times \frac{r}{r} = \frac{r}{9}$$

$$b \rightarrow \frac{r}{9} \times r = \frac{\Delta}{9}$$

$$\sqrt{\frac{\Delta}{9}} = \boxed{\frac{r\sqrt{r}}{9}} \checkmark$$

(f)

$$y = ax + 1 \quad r = a + 1 \quad a = 1 \checkmark$$

$$ay = x + a - 1 \quad ra = a \quad a = 0 \times$$

$$y = x + 1$$

$$y = x$$

$$x - y = -1$$

$$x - y = 0$$

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

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

$$r\omega - \frac{1}{r} = \frac{r\omega}{r} \rightarrow \frac{V}{\sqrt{2}}$$

$$\frac{V}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = \frac{V}{2} = r\omega \checkmark$$

(f)

$$\frac{|r + 0 - 1|}{\sqrt{1^2 + (-r)^2}} = \frac{r}{\sqrt{10}} \checkmark$$

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

$$\frac{1}{r} \times \frac{r}{\sqrt{10}} \times \frac{r}{\sqrt{10}} = \frac{r}{10}$$

(f)

$$\frac{b-a}{\frac{1}{9}} = \sqrt{r} \quad 9(b-a) = \sqrt{r} \quad b-a = \frac{\sqrt{r}}{9}$$

$$\text{Sol: } \sqrt{\left(\frac{b-a}{\frac{1}{9}}\right)^2 + \left(-\frac{1}{r} - \left(-\frac{1}{r}\right)\right)^2} = \sqrt{\frac{r}{r^2}} = \frac{1}{r}$$

$$s = \frac{1}{r} \times \frac{1}{r} = \frac{1}{r}$$

$$\frac{1}{9} \times r = \frac{r}{9}$$

$$\sqrt{\frac{r}{9}} = \boxed{\frac{\sqrt{r}}{3}} \checkmark$$

(f)

$$r = \sqrt{(-r)^2 + (-r)^2} = \Delta \checkmark$$

$$\cancel{x = \frac{r}{r} \times \frac{r}{r}}$$

$$x^r + y^r = r\omega$$

$$rx - r\left(-\frac{r}{r}x + \frac{r\omega}{r}\right) - r\omega = 0$$

$$rx + \frac{19r}{r} - \frac{100}{r} - r\omega = 0$$

$$9x + 19x - 100 - r\omega = 0$$

$$r\omega x = 19x$$

$$x = 19$$

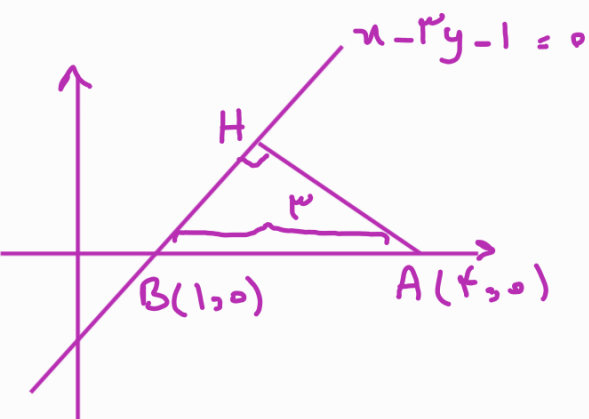
$$y = -1$$

$$L_1 = \cancel{rx - r\omega} = 0$$

$$L_2 = y = \cancel{\frac{r}{r} \times \frac{r}{r}}$$

$$V \times (-1) = -V$$

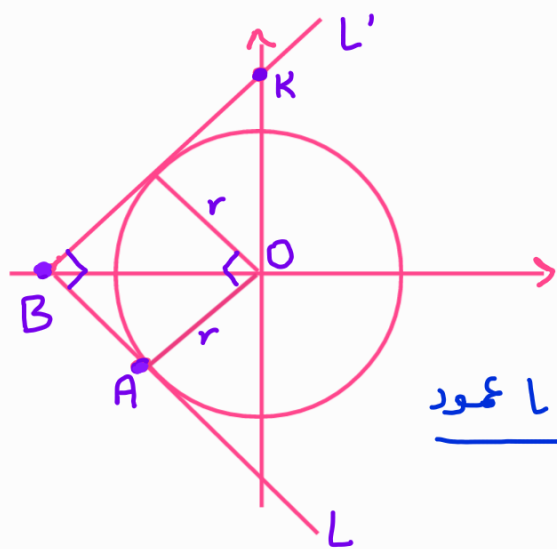
(f)



$$|AH| = \frac{|4 - 0 - 1|}{\sqrt{1+9}} = \frac{3}{\sqrt{10}}$$

$$\frac{9}{10} (AH)^2 + (BH)^2 = (AB)^2 \rightarrow BH = \frac{9}{\sqrt{10}}$$

$$S_{\Delta} = \frac{9}{\sqrt{10}} \times \frac{3}{\sqrt{10}} \times \frac{1}{2} = \frac{27}{20} = 1,35$$



$$m_{OA} = \frac{4}{3} \xrightarrow{\text{مخودبر}} m_L = -\frac{3}{4}$$

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

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

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

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

محققات B محل $\Rightarrow (-7, -1)$ حاصل ضرب 7
 تقاطع L و L'