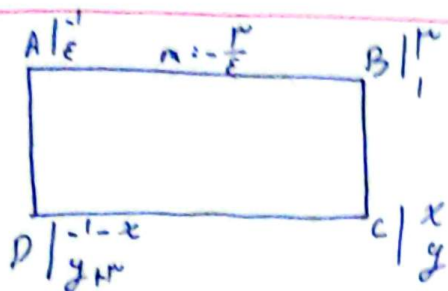


$$m = \frac{1}{r} = \frac{m \cdot k}{\varepsilon \cdot (-r)} \rightarrow m \cdot k = r$$

(20)

$$B: A \text{ دلو } \sqrt{(m-x)^2 + (\varepsilon \cdot (-r))^2} \cdot \sqrt{9+16} \cdot \sqrt{\varepsilon \omega} = 3\sqrt{\omega} \rightarrow 5 \cdot (3\sqrt{\omega})^2 \cdot \varepsilon \omega$$

(3)



$$\text{Co } x : x-1 = r-x \rightarrow rx = 1-r \rightarrow x = \frac{1-r}{r}$$

$$\text{Co } y : y+\varepsilon = y+\varepsilon$$

$$m_{BC} = \frac{\varepsilon}{r} = \frac{y-1}{-\frac{1-r}{r}} \rightarrow y-1 = -r \rightarrow y = -1$$

$$AB = \sqrt{14+9} = \omega \rightarrow BC = \sqrt{\frac{9}{\varepsilon} + \varepsilon} = \frac{\omega}{r}$$

$$\frac{1}{\omega} = r(\omega + \frac{\omega}{r}) = 1\omega$$

(5)

$$m = \tan \theta = \sqrt{r} = \frac{-rm}{m^2-1} \rightarrow \sqrt{r} m^2 - \sqrt{r} = -rm \rightarrow \sqrt{r} m^2 + rm - \sqrt{r} = 0$$

$$\Delta : \varepsilon - \varepsilon \times \sqrt{r} \times (-\sqrt{r}) = \varepsilon + 1 = 14 \rightarrow m = \frac{-r \pm \varepsilon}{2\sqrt{r}} \begin{cases} \frac{1}{\sqrt{r}} \\ -\frac{r}{\sqrt{r}} \end{cases} \xrightarrow{\text{اذا كان}} \frac{\varepsilon}{\sqrt{r}}$$

(5)

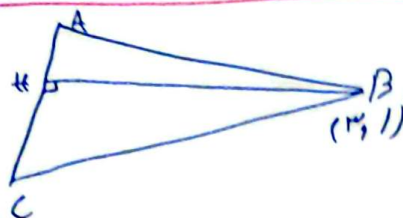
$$m = \frac{11-r}{v-r} = r \rightarrow y-r = r(x-r) = rx - r \rightarrow y = rx - r$$

$$AH = \frac{|11-9-r|}{\sqrt{\varepsilon+1}} = \frac{1}{\sqrt{\omega}} = r\sqrt{\omega}$$

(5)

Simple

(5)



$$BH = AC \text{ دلو } = \frac{|\varepsilon-9-14|}{\sqrt{9+16}} = \varepsilon, \varepsilon$$

$$y_{AB} = y_{BC}$$

$$\rightarrow -rx + 1 = \frac{vx-14}{r} \rightarrow x = r$$

(5)

(5)

$$m = \frac{-9-0}{0+\frac{r}{\varepsilon}} = -1 \rightarrow y = -1(x+\frac{r}{\varepsilon}) \rightarrow y = -1x - \frac{r}{\varepsilon}$$

$$-1x - \frac{r}{\varepsilon} = x \rightarrow 4x = -\frac{r}{\varepsilon} \rightarrow x = -\frac{r}{4\varepsilon} \rightarrow y = -\frac{r}{4\varepsilon}$$

$$d = \sqrt{\frac{\varepsilon}{9} + \frac{\varepsilon}{9}} = \frac{r}{\sqrt{2}}$$

(5)



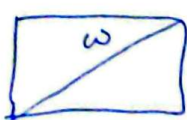
(5)

$$r = \frac{1}{a} \rightarrow a^2 = 1 \rightarrow a = \pm 1$$

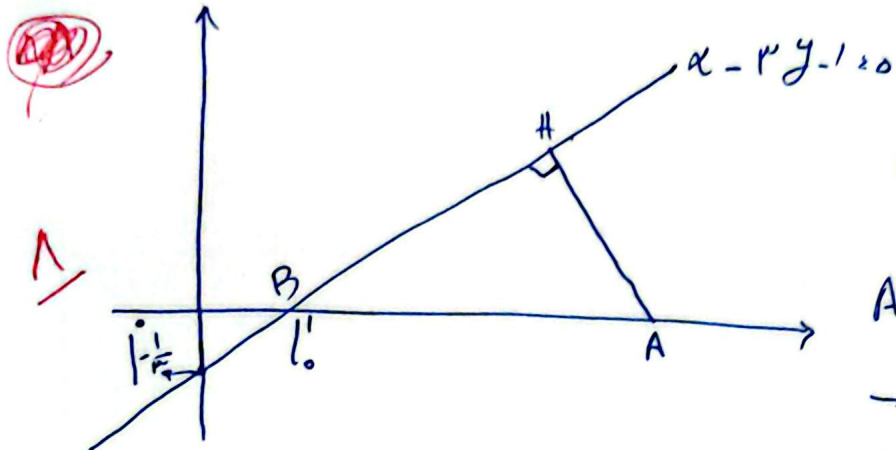
$$r = \frac{|11-1|}{\sqrt{1+1}} = \frac{1}{\sqrt{2}} \quad / \quad s^2 = 10 - \frac{1}{r} = \frac{\varepsilon 9}{r}$$

(5)

(5)



$$r = \frac{1}{\sqrt{2}} \rightarrow \omega = \frac{v}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = \frac{v}{2} = \frac{r}{\omega}$$

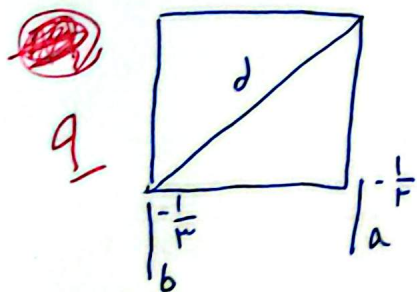


$$AH = \frac{|E - 0 - 1|}{\sqrt{1+9}} = \frac{2}{\sqrt{10}} \quad (5)$$

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

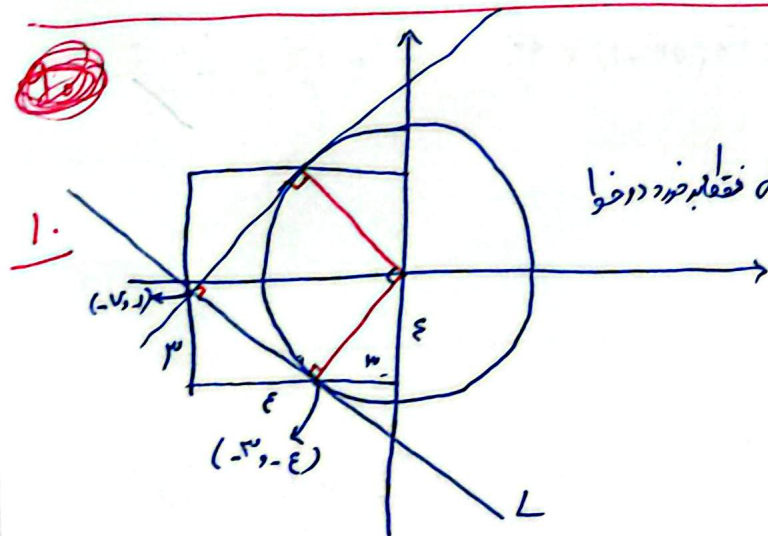
$$\rightarrow BH = \frac{9}{\sqrt{10}}$$

$$S_{AHB} = \frac{1}{2} \times \frac{2}{\sqrt{10}} \times \frac{9}{\sqrt{10}} = \frac{9}{10} = 0.9$$



$$\frac{b-a}{-\frac{1}{4} + \frac{1}{4}} = \sqrt{2} \rightarrow b-a = \frac{\sqrt{2}}{4}$$

$$d = \sqrt{2} \times \sqrt{\left(\frac{b-a}{\sqrt{2}}\right)^2 + \frac{1}{4}} = \sqrt{2} \times \frac{1}{2} = \frac{\sqrt{2}}{2} \quad (5)$$



$$(-1) \times (-1) = 1 \quad (5)$$