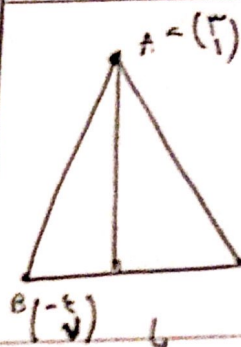


$$B = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 2 \\ -4 \end{pmatrix}$$

$$\left. \begin{aligned} \frac{1}{2}n + b &= 1 \\ \frac{1}{2} \cdot 3 + b &= 1 \\ -b &= \frac{4}{3} \end{aligned} \right\} \rightarrow \frac{1}{2}n + \frac{4}{3} = 1$$

$$a = \frac{1 - (-4)}{2 - 2} = -\infty$$



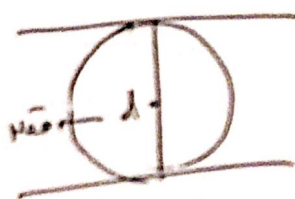
$$\Delta - 2 = 3 \rightarrow \text{جواب آفر}$$

$$\frac{1 - 2 + \frac{5}{2} - 1}{\sqrt{\frac{25}{4} + 1}} = \frac{1}{\frac{5}{2}}$$

$$\frac{2}{5} + b = 3 \rightarrow b = \frac{5}{2}$$

$$\frac{1}{2}n + \frac{5}{2} - 1 = 0$$

$$\rightarrow \frac{2 - 3}{-2 + 1} = \left(\frac{1}{-1} \right) \rightarrow \text{دست} = \sqrt{4 + 14} = \Delta$$



$$r_y - r = 1 \rightarrow r_y - 2 = 1 \rightarrow r_y = 3$$

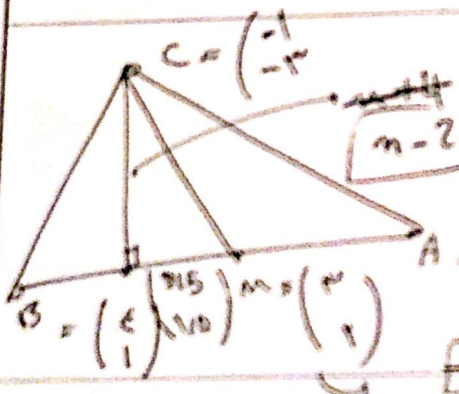
$$r_y - 2 = 2 \rightarrow r_y = 4$$

$$r_y - 2 = 2 \rightarrow r_y = 4$$

$$1, 8, 11$$

$$S = \frac{11}{2} \parallel$$

$$d = \frac{12}{\sqrt{20}} \rightarrow r = \frac{6}{\sqrt{20}}$$



$$m - 2 = -n + 4 \rightarrow m = 7$$

$$m = 3/5$$

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

$$MH = \sqrt{\frac{1}{2} + \frac{1}{2}}$$

$$(r_m - 2)m + (\Delta - m)y - 1 = 0 \rightarrow \frac{(r_m - 2)}{(\Delta - m)} \cdot \frac{m+1}{(r_m - 2)} = 1$$

$$(m+1)n - (r_m - 2)y + 1 = 0$$

$$\rightarrow \Delta m^2 - 13m + 11 = 0 \rightarrow \Delta < 0$$

$$(r_m - 2)(\Delta - m)$$

جواب نهایی

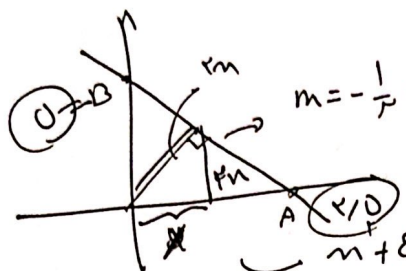
$$\begin{aligned} AB &= x+ry = r \\ AC &= y-rx = -1 \\ BC &= x+y = r \end{aligned}$$

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

$$x+ry - r = x+y - r \rightarrow y = -1$$

$$y-rx + 1 = x+y - r \rightarrow -rx = -r \rightarrow x = 1$$

$$AB = \sqrt{r^2 + 9/10} = r\sqrt{10/9}$$



$$m = -\frac{1}{r} \rightarrow -\frac{1}{r}n + B = r$$

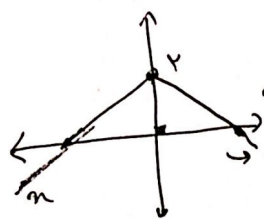
$$\rightarrow -1 + B = r \rightarrow B = r + 1$$

$$-\frac{1}{r}n + r = 0 \rightarrow n = r^2$$

$$n + r = r^2 \rightarrow n = r^2 - r$$

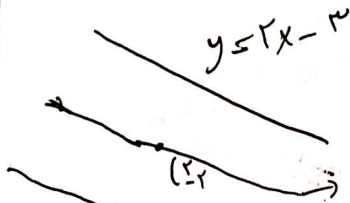
$$A = (1, 0)$$

$$mg - rx - rm = y + m(x-1) \rightarrow m = 1 \rightarrow y = r$$



$$\frac{n-r}{r} = \frac{d}{r}$$

$$n(m-1) - r + \frac{d}{r} = -rm - rm$$

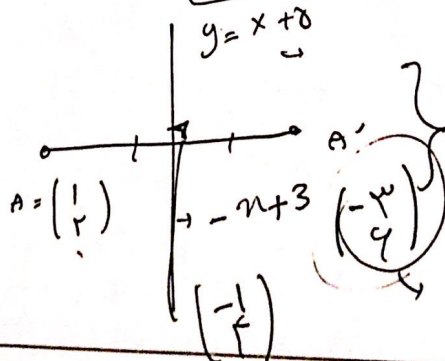


$$y - rx = \frac{b-r}{r} = -4$$

$$\rightarrow b - r = -4$$

$$\rightarrow b = -4$$

$$y = rx + b \rightarrow y = rx - 4$$



$$n + d = -n + r \rightarrow rn = -r \rightarrow n = -1$$

$$rx - (-r) = 1 \rightarrow rx + r = 1$$