

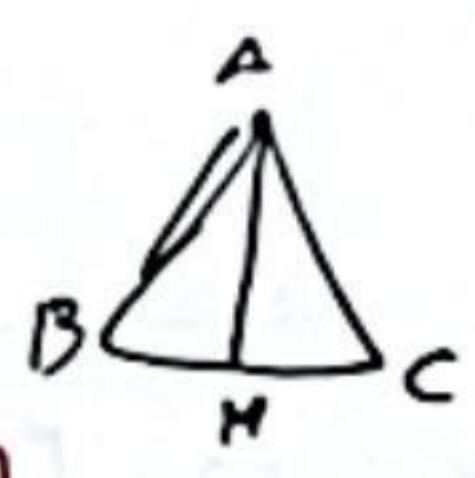
تکلیف ۱۲

$$\frac{-2-1}{1-2} = -1 \quad y = -x + 2$$

$$y = \frac{1}{2}x + \frac{5}{2}$$

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$$BC = \sqrt{2^2 + 1^2} = \sqrt{5}$$



$$\frac{2-1}{-1-1} = \frac{1}{2} \quad y = -\frac{1}{2}x + \frac{5}{2} \Rightarrow 2y + x - 5 = 0$$

$$\boxed{d = 2 = 2}$$

$$AH = \frac{|1 \cdot 2 + 2 \cdot 0 - 5|}{\sqrt{1^2 + 2^2}} = \frac{1}{\sqrt{5}} = 2$$

$$y = \frac{x}{2} + \frac{5}{2}$$

$$y = \frac{x}{2} + \frac{1}{2}$$

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

$$\frac{2}{\sqrt{5}} = \frac{1}{\sqrt{5}}$$

$$\frac{4}{2\sqrt{5}} \times \frac{4}{2\sqrt{5}} = \frac{16}{20} = \frac{4}{5}$$

$$M \mid \begin{matrix} 2 \\ 1 \end{matrix} \quad AB = -1$$

$$y + 2 = 1(x + 1) \Rightarrow y = x - 1$$

$$AD \text{ خط } y - 2 = -1(x - 2) \Rightarrow y = -x + 4$$

$$\begin{cases} y = x - 1 \\ y = -x + 4 \end{cases} \Rightarrow x = \frac{3}{2}, y = \frac{5}{2}$$

$$MH = \sqrt{\frac{1}{4} + \frac{1}{4}} = \sqrt{\frac{2}{4}} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$y = \frac{-2m+2}{d-m}x + \frac{1}{d-m}$$

$$\frac{-2m+2}{d-m} = \frac{-2m+2}{m+1} \quad \begin{matrix} \text{خط نهاده و پس} \\ \text{محدود می شوند. (داده)} \end{matrix}$$

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

$$AB: x + 2y = 2 \Rightarrow A \mid \begin{matrix} 2 \\ 1 \end{matrix}$$

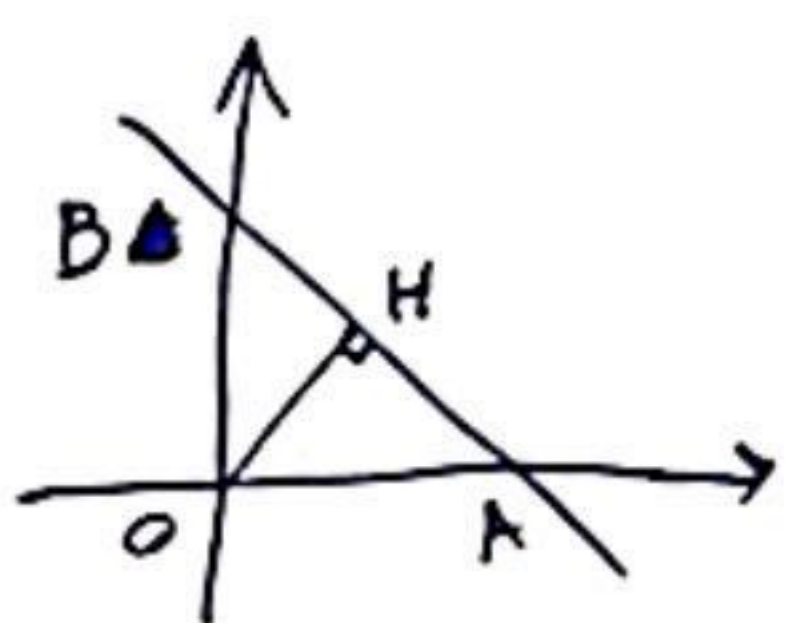
$$AC: y = 2x - 1 \Rightarrow B \mid \begin{matrix} 0 \\ -1 \end{matrix}$$

$$BC: x + y = 1 \Rightarrow C \mid \begin{matrix} \frac{1}{2} \\ \frac{1}{2} \end{matrix}$$

$$\Rightarrow AM = \frac{d\sqrt{2}}{2}$$

$$AH = \sqrt{2}$$

$$\Rightarrow \frac{AM}{AH} = \frac{\frac{d\sqrt{2}}{2}}{\sqrt{2}} = \frac{d}{2}$$



$$OH = \sqrt{1^2 + 1^2} = \sqrt{2}$$

$$H = \left(\frac{2}{2}, \frac{1}{2}\right) \Rightarrow y - \frac{1}{2} = -\frac{1}{2}(x - 2) \Rightarrow y = -\frac{1}{2}x + 1$$

$$\begin{matrix} y = 0 & A \mid 0 \\ x = 1 & B \mid 1 \end{matrix}$$

$$AB = \sqrt{1^2 + 1^2} = \sqrt{2}$$

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$$y = +2x - 9$$

$$\begin{array}{l} 2 \\ -9 \end{array} \rightarrow \text{رشته}$$

هرینه خط دقیقاً یک شیب دارند یک
نقطه در نظر می گیریم و خط اول فریم می کشیم و معادله نوشته می شود....

$$AA' \Rightarrow \begin{cases} y = -x + 3 \\ y = x + 5 \end{cases} \Rightarrow \begin{cases} x = -1 \\ y = 4 \end{cases}$$

$$B \begin{array}{l} -1 \\ 4 \end{array}$$

$$\begin{aligned} x_B &= \frac{x_A + x_{A'}}{2} \rightarrow -1 \\ y_B &= \frac{y_A + y_{A'}}{2} \rightarrow 6 \end{aligned}$$

$$2(6) - (-1) = 13$$

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