

$$M \begin{vmatrix} \frac{x+2}{2} = 3 \\ \frac{1-y}{2} = 1 \end{vmatrix}$$

$$B(2, 1) \text{ و } A(4, -2)$$

معادله خط از

$$m = \frac{1 - (-2)}{2 - 4} = -\frac{3}{2}$$

$$m \times m' = -1$$

$$a = \frac{1}{m}$$

$$y = ax + b$$

$$m' = \frac{1}{m}$$

$$M: \begin{vmatrix} 3 \\ 1 \end{vmatrix} \quad 1 = \frac{3}{2} + b \rightarrow b = -\frac{1}{2}$$

$$\text{معادله خط} \rightarrow y = \frac{1}{2}x + \frac{3}{2}$$

$$BC - AH = ?$$

$$A(3, 1)$$

$$B(-4, 5)$$

$$C(-1, 3)$$

مساحت

$$BC \rightarrow \text{ارتفاع وارده} \quad m \times m' = 1 \quad \frac{5 - 3}{-4 - (-1)} = \frac{2}{-3} \rightarrow \text{شیب} = +\frac{3}{2}$$

معادله خط

$$y = am + b$$

$$\rightarrow A \rightarrow +\frac{3}{2}(3) + b = \frac{3}{2}$$

$$\frac{3}{2}m - \frac{9}{2} = y$$

$$\frac{9}{2} - \left(\frac{9}{2}\right)$$

$$BC \rightarrow C \rightarrow -\frac{3}{2}(-1) + b = \frac{3}{2}$$

$$-\frac{3}{2}m + \frac{3}{2} = y$$

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

$$-\frac{3}{2}m + \frac{3}{2} = \frac{3}{2}m - \frac{9}{2} \rightarrow \frac{3}{2} + \frac{9}{2} = \frac{3}{2}m \rightarrow \frac{12}{2} = \frac{3}{2}m \rightarrow m = \frac{4}{3}$$

$$H: \left(\frac{4}{3}, -\frac{1}{3}\right)$$

$$BC \text{ اندازه} = \sqrt{\frac{(-4-(-1))^2}{9} + \frac{(5-3)^2}{14}} = \sqrt{20} = 2\sqrt{5}$$

$$AH \text{ اندازه} = \sqrt{\frac{\left(\frac{4}{3}-\frac{3}{2}\right)^2}{\frac{9}{40}} + \frac{\left(-\frac{1}{3}-\frac{1}{2}\right)^2}{\frac{16}{90}}} = \sqrt{\frac{1}{10}} = \frac{1}{\sqrt{10}}$$

$$\delta = 12 \rightarrow 12$$

$$AB: m + y = r \rightarrow -\frac{1}{r}m + \frac{r}{r}y$$

$$\frac{AM}{AH} = \frac{0}{1}$$

(9)

$$AC: y = r_{m-1} \rightarrow y = r_{m-1}$$

$$BC: m + y = r \rightarrow y = r - m$$

$$-\frac{1}{r}m + \frac{r}{r}y = r - m + r$$

$$\frac{1}{r}m = \frac{0}{r} \rightarrow m = 0$$

$$B = (0, -1)$$

$$C = \left(\frac{0}{r}, \frac{r}{r}\right)$$

$$r_{m-1} = r - m + r$$

$$r_{m-1} = 0 \quad m = \frac{0}{r}$$

$$A = (1, 1)$$

$$AM = \sqrt{\left(\frac{r}{r}\right)^2 + \left(\frac{1}{r}\right)^2} = \frac{\sqrt{2}}{r}$$

$$-\frac{1}{r}m + \frac{r}{r}y = r_{m-1}$$

$$\frac{0}{r}m = \frac{0}{r} \rightarrow m = 1$$

$$AH = \frac{|1+1-1|}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$\frac{AM}{AH} = \frac{\frac{\sqrt{2}}{r}}{\frac{1}{\sqrt{2}}} = \frac{\sqrt{2} \cdot \sqrt{2}}{r} = \frac{2}{r}$$

$$\frac{m}{A} + \frac{y}{B} = 1 \rightarrow \frac{m_B + y_A}{AB} = 1$$

$$AB = m_B + y_A$$

(V)

$$\frac{|AB|}{\sqrt{A^2 + B^2}} = \sqrt{r_0} \rightarrow \frac{r_B}{\sqrt{0 + B^2}} = \sqrt{r_0} \rightarrow \frac{r_B}{\sqrt{0}} = \sqrt{r_0} \rightarrow r_B = \sqrt{1..}$$

$$B = 0$$

$$A = 1$$

$$\sqrt{r_0 + 1..} = (\sqrt{5}) \leftarrow \text{جواب}$$

- 1 $my - \epsilon m \leq r m \rightarrow y \leq \frac{\epsilon}{m} m + r$ (5) (A)
- 2 $y + m m \leq m + r \rightarrow y \leq (1-m)m + r$ $y \leq \frac{\epsilon}{m} m + r \rightarrow m \leq \frac{r}{1-\frac{\epsilon}{m}} \beta \left| -\frac{m}{r} \right|$
- 3 $\frac{\epsilon}{m} m + r \leq (1-m)m + r \Rightarrow y \leq r$ A | $\frac{0}{r}$ $y \leq (1-m)m + r \rightarrow m \leq \frac{r}{1-m} C \left| \frac{r}{m-1} \right|$
- 4 $S \leq \frac{1}{p} \left| \frac{\epsilon}{m-1} - (-m) \right| \leq \frac{0}{p}$ $-\delta m + \delta s m \leq m + \epsilon$
- 5 $\left| \frac{\epsilon + m(m-1)}{m-1} \right| \leq \delta$ $\frac{\epsilon + m(m-1)}{m-1} \leq \delta$ $m \leq m - 1 \leq 0$
- 6 $\frac{\epsilon + m(m-1)}{m-1} \leq \delta$ $\frac{\epsilon + m(m-1)}{m-1} \leq \delta$ $\frac{\epsilon + m(m-1)}{m-1} \leq \delta$
- 7 $m \leq m - 1 \leq 0 \rightarrow (m-1)r \leq 0$ $\leftarrow \delta m - \delta s \epsilon + m^2 - m$
- 8 $p \leq (-r + \sqrt{0}) (-r - \sqrt{0}) (r) \Rightarrow (\epsilon - \delta) (r) \leq r$
- 9
- 10 $\frac{\alpha + 0}{r} \leq r \rightarrow \alpha \leq r$ $m \leq 0 \rightarrow y \leq r$ (5) (4)
- 11 $\frac{\beta - r}{r} \leq r - r \rightarrow \beta \leq -1$ $y - r m + r \leq 0 \rightarrow m \leq r$
- 12 $y + 1 \leq r(m - \epsilon) \leq y + 1 \leq r m - 1$ $y \leq r m - 1$
- 13
- 14 $y - r \leq -(m-1) \Rightarrow y - r \leq -m + 1 \Rightarrow y \leq -m + r$ (5) (1.)
- 15 $-m + r \leq m + \delta \Rightarrow -r m \leq r \rightarrow m \leq -1$ $y \leq r$
- 16 $\frac{r+b}{r} \leq r \leq b \leq r$ $\frac{1+q}{r} \leq -1 \rightarrow a \leq -r$ $r b - a \leq 1 \leq r$ (10)
- 17
- 18
- 19
- 20