

ارین الی

بازهم

۱۷، ۲۵

تکلیف شماره ۱۶

$$\left(\frac{y}{x}, \frac{1-y}{x}\right) \rightarrow (3, 1) \quad \frac{\Delta y}{\Delta x} = \frac{1-(-4)}{3-4} = \frac{14}{-2} \rightarrow -7 \rightarrow \frac{1}{x} + \frac{4}{y} = 7$$

$$\frac{y-2}{-4-(-1)} = \frac{-4}{3} \rightarrow -\frac{4}{3}x + \frac{13}{3} = \frac{4}{3}x + \frac{13}{3} \rightarrow x=2$$

$$-9x + 29 = 14x + 21 \rightarrow 25x = 8 \rightarrow BC \Rightarrow \sqrt{49+25} = \sqrt{74}$$

$$AH = \frac{|ax^2+bx+c|}{\sqrt{a^2+b^2}} = \frac{|-4+21-21|}{\sqrt{16}} = \frac{1}{4} \times \frac{\sqrt{16}}{\sqrt{16}} = \frac{1}{4}$$

$$(x, y) (4, 1) \rightarrow (3, 2) \quad \frac{\Delta y}{\Delta x} = \frac{2-1}{3-4} = -1 \rightarrow x-2 = -x+4 \rightarrow x=3$$

$$(2, 2), (1, 2), (2, 3) \quad \sqrt{(0, 2)^2 + (0, 2)^2} \rightarrow \sqrt{\frac{1}{4} + \frac{1}{4}} \rightarrow \sqrt{\frac{1}{2}} \rightarrow \frac{1}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\frac{-2m+2}{2-m} \quad \frac{m+1}{2m-4} \quad \Delta < 0 \quad x \checkmark$$

$$\frac{m+2}{2m-2} = \frac{m+1}{2m-4} \rightarrow (2m-2)(m+1) = (2m-4)(m+2) \rightarrow 2m^2 + m - 2 = 2m^2 - 4m + 4 \rightarrow 5m - 6 = 0 \rightarrow m = \frac{6}{5}$$

$$y = \frac{-x+2}{2} \quad \frac{-x+2}{2} - 2x - 1 \rightarrow -x+2 = 4x-2 \rightarrow x=1$$

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

$$y = -x+2 \quad 2x-1 = -x+2 \rightarrow 3x=3 \rightarrow x=1$$

$$BC \text{ و } M = (\frac{1}{2}, \frac{1}{2}) \quad \frac{y+\frac{1}{2}x}{\sqrt{\frac{1}{4}}} = \frac{x}{\sqrt{1}} = \sqrt{1}$$

$$\frac{m}{2} + \frac{-2}{1-m} = \frac{1}{2} \rightarrow m^2 + 4m + 4 = 0 \rightarrow m+2=0 \rightarrow m=-2$$

$$B(r, r')$$

$$x_A = \frac{x_B + x_{B'}}{r} \Rightarrow \frac{r' + x_{B'}}{r} = 1 \rightarrow x_{B'} = 1$$

$$y_A = \frac{y_B + y_{B'}}{r} \Rightarrow \frac{r' + y_{B'}}{r} = -1 \rightarrow y_{B'} = -V$$

$$(r, -r)$$

$$y = rx - 9 \checkmark$$

(r)

-9

$$m_{AA'} = -1 \rightarrow y - 1 = -x + 1$$

$$\left. \begin{array}{l} y = -x + 2 \\ y = x + 1 \end{array} \right\} y = a + b \rightarrow (-1, 1)$$

$$x_B = \frac{x_A + x_{A'}}{r} = -1 = \frac{1 + x_{A'}}{r} \rightarrow -r$$

$$y_B = \frac{y_A + y_{A'}}{r} = 1 = \frac{r' + y_{A'}}{r} \rightarrow y$$

$$(-r, y) \checkmark \rightarrow rb - a = 12$$

$$BC = \sqrt{(-r - (-1))^2 + (y - r)^2} = 2$$

$$m_{BC} = -\frac{r}{y} \quad \text{C}(-1, r) \rightarrow y - r = -\frac{r}{y}(x + 1) \rightarrow y + \frac{r}{y}x - \frac{2}{y} = 0$$

$$BC : A \text{ نقطه : } r \rightarrow 2 - r = r$$