

A -

$$m = \frac{8+6}{2-4} = -7 \rightarrow y = -7x + b$$

$$\left| \begin{matrix} 2 \\ 8 \end{matrix} \right| \Rightarrow 8 = -14 + b \Rightarrow b = 22, y = -7x + 22$$

$$\left| \begin{matrix} 3 \\ 1 \end{matrix} \right| \Rightarrow m' = 1/7 \rightarrow 1 = 3/7 + b \Rightarrow b = 4/7, y = \frac{x}{7} + \frac{4}{7} \Rightarrow 7y = x + 4$$

$$BC \text{ دُور} = \sqrt{(3-7)^2 + (-7+1)^2} = 5$$

$$AH \text{ دُور} = \frac{|1+4-5/3|}{\sqrt{25/9}} = \frac{10/3}{5/3} = 2 \Rightarrow 5-2=3$$

$$y_{BC} = -4/3x + b \Rightarrow y_{BC} = -4/3x + 5/3$$

$$2y = 7+x$$



$$\text{مساحت} = \left(\frac{6\sqrt{5}}{10} \right)^2 \times \pi = 18\pi$$

$$\text{مقدار} = \frac{6\sqrt{5}}{5}$$

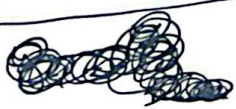
$$M = 3/2$$

$$H = \frac{7/2}{3/2}$$

$$\Rightarrow d_{MH} = \sqrt{(7/2)^2 + (7/2)^2} = \frac{\sqrt{2}}{2}$$

$$y_{CH} = x + b \Rightarrow y_{CH} = x + 2 \Rightarrow x = 7/2, y = 3/2$$

$$y_{AB} = x + b \Rightarrow y_{AB} = -x + 5$$



$$\frac{m+1}{2m+4} \rightarrow \frac{5-m}{3m-2} \Rightarrow$$

$$10m - 2m^2 + 4m - 20 = 3m^2 + m - 2 \quad .5$$

$$\Rightarrow 5m^2 - 13m + 18 = 0$$

دلتا منفی است پس هیچ جوابی
صمیمیت

$$\frac{3}{2} - \frac{x}{2} = 2x - 7 \Rightarrow [7] \quad 4 - x = 2x - 7 \Rightarrow \frac{5}{3}$$

$$\frac{3}{2} - \frac{x}{2} = 4 - x \Rightarrow \frac{5}{-1}$$



$$\frac{5\sqrt{2}}{3} = \frac{5}{3}$$

$$\sqrt{20} = \frac{|b|}{\frac{\sqrt{5}}{4}} = 2\sqrt{5} = \frac{b}{\frac{\sqrt{5}}{2}} \Rightarrow b = 5$$

③

. 7

$$A|_y \Rightarrow y = 0 + 5 = 5 \Rightarrow |_5^0$$

$$dAB = \sqrt{25 + 100} = \sqrt{125} = 5\sqrt{5}$$

$$B|_x \Rightarrow \frac{x}{2} + 5 = 0 \Rightarrow x = -10 \Rightarrow B|_{-10}^0$$

. 8

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

$$y = \frac{4}{m}x + 2 \Rightarrow x = -\frac{m}{2} \Rightarrow \frac{-m^2 + m - 4}{2 - 2m} = \pm \frac{5}{2}$$

$$m = 3, m = -2 + \sqrt{5}, m = -2 - \sqrt{5}$$

$$\Rightarrow 3 \times 1 = 3$$

$$y = \frac{x}{2} - 1 \quad y = 2x - 3$$

$$H = -x - 2 = 4x - 6 \rightarrow 4 = 3x \Rightarrow x = \frac{4}{3} \quad y = -\frac{1}{3} \Rightarrow H = \left| \frac{4}{3} \right|^{-\frac{1}{3}}$$

$$H' = 4 - \frac{4}{3} = \frac{8}{3}$$

$$y_{H'} = -4 + \frac{1}{3} = -\frac{11}{3} \quad H' = \begin{vmatrix} \frac{8}{3} \\ -\frac{11}{3} \end{vmatrix} \Rightarrow y' = -\frac{11}{3} = \frac{16}{3} + b \Rightarrow b = \frac{27}{3} = 9$$

$$y' = 2x + 9$$

$$x + 5 = -x + 3 \Rightarrow H = \frac{-1}{4} \Rightarrow A' = \begin{vmatrix} -3 \\ 6 \end{vmatrix}$$

. 10

$$a = -3 \quad b = 6 \Rightarrow 2b - a = 12 + 3 = 15$$