

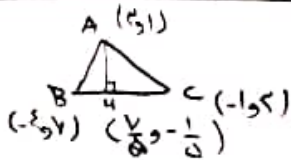
$$x_1 = \frac{3+2}{2} = 2.5$$

$$y = \frac{1}{v} a + b$$

$$y_1 = \frac{1-y}{2} = 1$$

$$1 = \frac{x}{y} + \frac{z}{y} \Rightarrow \boxed{y = x + z} \quad \checkmark$$

$$m \overline{AB} = \frac{1 - 4}{2 - 1} = \frac{18}{-1} = -18 \Rightarrow m d = \frac{1}{18}$$



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

$$y = \frac{1}{n} \sum x + b = \frac{1}{n} \sum x - \frac{\Delta}{2}$$

$$\ln BC = \frac{V - \mu}{-\frac{1}{\lambda-1}} = \frac{\xi}{-\frac{1}{\lambda}} \Rightarrow \ln AH = \frac{\xi}{\lambda} \quad \{y = \xi \lambda \Delta\}$$

$$H \begin{cases} \varepsilon_2 = 0 \\ y = -\frac{\varepsilon_1}{2}x + \frac{\Delta}{2} = \varepsilon_2 = -\varepsilon_1 + \Delta \end{cases}$$

$$1 = \frac{a}{3} + b \Rightarrow b = -\frac{a}{3}$$

$$92 - 10 = -142 + 2.$$

$$202 = 20$$

$$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

$$A^{\frac{1}{2}} = \sqrt{\left(c - \frac{v}{c}\right)^2 + \left(\frac{1}{c}\right)^2}$$

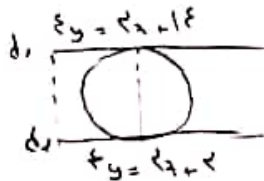
$$BC - AH = \Delta r = \boxed{u}$$

$$\frac{35}{12} + \frac{14}{12} = \sqrt{\frac{11}{10}} = (2)$$

$m_1 = m_2 \Rightarrow$  دو خط موازی

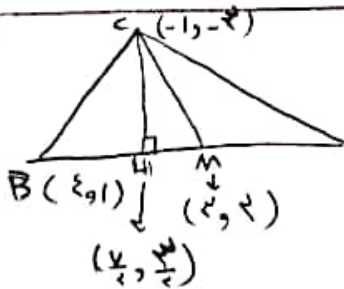
$$y - z = V \Rightarrow z = y - V \Rightarrow m = \frac{1}{2}$$

$$\{y = 0.2, 1\} \quad \{y = 0.2, 1\} \Rightarrow h = \frac{1}{2} = \frac{a}{2} \Rightarrow a = 1$$



$$\frac{d_1 d_2}{\sqrt{a^2 + b^2}} = \frac{114 \cdot 21}{\sqrt{14^2 + 3^2}} = \frac{12}{\sqrt{2}} = 6\sqrt{2} \Rightarrow \frac{4}{\sqrt{2}} = 2\sqrt{2}$$

$$S = \pi r^2 = \left(\frac{9}{\sqrt{2}}\right)^2 \pi = \frac{81}{2} \pi = \boxed{\frac{9}{2} \pi} \quad \checkmark$$



$$m_{AR} = \frac{2-1}{2-2} = -1 \Rightarrow m_{CH} = 1$$

$$CH_2 = y_1 - x_2 - 2$$

$$y_2 = -2 + \Delta \rightarrow \text{AR 1,6} \quad y_1 = y_r = 0$$

H<sub>2</sub> 2-2 = -2.0

$$\lambda = \frac{V}{f}$$

$$M4 = \sqrt{\left(\frac{1}{2} - \frac{1}{2}\right)^2 + \left(\frac{1}{2} - \frac{1}{2}\right)^2} = \frac{\sqrt{2}}{2}$$

$$m_1 = -\frac{1}{m_2} \quad m_1 \times m_2 = -1$$

$$(x_{m-1})^2 + (d-m)y - V = 0 \quad m_1 = \frac{x_{m-1}^2}{d-m}$$

$$(m+1)x - (m-8)y - 1 = 0 \quad m_c = \frac{m+1}{8-m}$$

$$h_1 \times h_2 = \frac{r_{m-1}}{\delta - h} \times \frac{h+1}{1-r_m} = -1 \Rightarrow \frac{r_{m-1}}{\delta - h} = -\frac{(1-r_m)}{h+1} \Rightarrow \frac{r_{m-1}}{\delta - h} = \frac{r_{m-1}}{h+1}$$

$$(m+1)(\langle m-1 \rangle) = (\langle m-1 \rangle)(d-m)$$

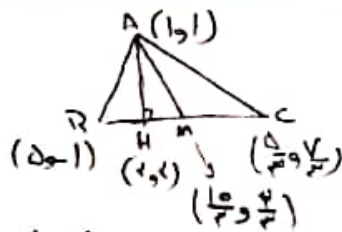
$$f_m^2 + m - 2 = -f_m^2 - 12m - 2$$

$$\Delta m^2 - 10^4 m + 1A = 0$$

$$\Delta C \Rightarrow \Delta \ln \frac{C}{T}$$

به ازای هیچ مقدار  $m$  این رابطه برقرار نیست  $\emptyset$

$$\begin{cases} AB: x+y=2 \\ AC: y=x-1 \\ BC: x+y=5 \end{cases}$$



$$BC: y = -x + 5 \Rightarrow$$

$$AH: y = x$$

$$H \Rightarrow -x + 5 = x$$

$$x = 2$$

$$\boxed{\frac{5}{2}} \quad -9$$

$$AB: x+y=2 \Rightarrow -x+y=2-2=0$$

$$AC: y=x-1 \Rightarrow A: \begin{cases} x=2 \\ y=1 \end{cases}$$

$$AB: x+y=2 \Rightarrow B: \begin{cases} x=0 \\ y=2 \end{cases}$$

$$BC: y = -x + 5 \Rightarrow C: \begin{cases} x=4 \\ y=1 \end{cases}$$

$$AC: y=x-1 \Rightarrow C: \begin{cases} x=4 \\ y=1 \end{cases}$$

$$BC: y = -x + 5 \Rightarrow C: \begin{cases} x=4 \\ y=1 \end{cases}$$

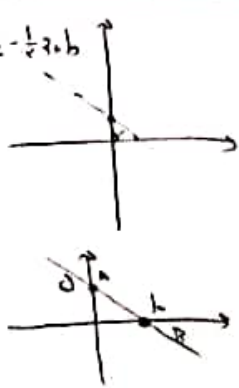
$$y = \frac{y}{x} \quad x = \frac{x}{y}$$

$$M = \left( \frac{10}{4}, \frac{1}{4} \right)$$

$$\frac{AM}{AH} = \frac{\sqrt{\left(\frac{10}{4}-2\right)^2 + \left(\frac{1}{4}-1\right)^2}}{\sqrt{2}} = \frac{\sqrt{\frac{100}{16} + \frac{1}{16}}}{\sqrt{2}} = \frac{\sqrt{\frac{101}{16}}}{\sqrt{2}} = \frac{\sqrt{101}}{4\sqrt{2}} = \frac{\sqrt{101}}{4\sqrt{2}}$$

$$m = -\frac{1}{x}$$

$$y = -\frac{1}{x} \cdot b$$



$$y = -\frac{1}{x} \pm 1$$

$$y = -x + 1$$

$$y = -x - 1$$

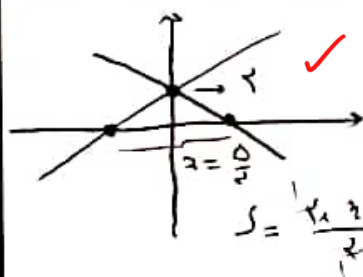
$$d = \frac{|ax_0 + by_0 + c|}{\sqrt{a^2 + b^2}} = \sqrt{2}$$

$$\frac{|c|}{\sqrt{2}} = \sqrt{2} \Rightarrow |c| = 2$$

$$|c| = \sqrt{2} \cdot \sqrt{2} = 2 \Rightarrow c = \pm 2$$

$$A = (0, 2) \quad B = (1, 0)$$

$$AB = \sqrt{2^2 + 1^2} = \sqrt{5} = \boxed{5\sqrt{5}}$$



$$y = (1-m)x + 2$$

$$my = 2x + m$$

$$x = 2x - 2$$

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

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

جواب صحیح بعد ...

$$\boxed{0} \quad -1$$

$$\boxed{2} \quad -9$$

$$y = 2x - 2$$

$$M(x, y)$$

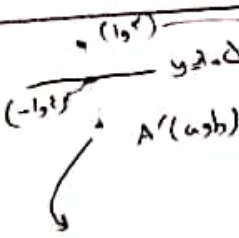
$$y = 2x - 9$$

$$ax + by = \frac{c+c'}{2}$$

$$\frac{-c+c'}{2} = -9$$

$$\Rightarrow c' = -9$$

$$\boxed{2} \quad -1$$



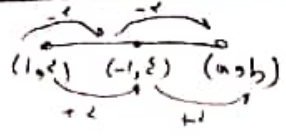
$$y = -x + 2$$

$$-x + 2 = x - 2$$

$$-x = x - 4$$

$$-1 = x$$

$$y = 3$$



$$a = -1$$

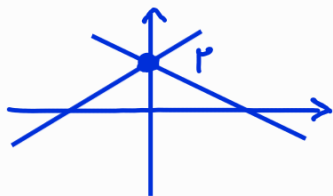
$$b = 1$$

$$b-a = 1-(-1) = 2$$

$$\boxed{15} \quad \checkmark$$

$$y = \frac{f}{m}x + 2$$

$$y = (1-m)x + 2$$



هر دو خط به نقطه  
(0, 2) می‌تقاطعند پس ارتفاع  
مثبت 2 واحد است

حالا هر یک را به صورت معادله خط با محور x:

$$y = \frac{f}{m}x + 2 \xrightarrow{y=0} x = -\frac{m}{f}$$

$$y = (1-m)x + 2 \xrightarrow{y=0} x = \frac{2}{m-1}$$

$$\Delta \text{ عدد} = \left| \frac{2}{m-1} - \left(-\frac{m}{f}\right) \right|$$

$$S_{\Delta} = \left| \frac{m^2 - m + f}{f(m-1)} \right| \times 2 \times \frac{1}{2} = \frac{5}{2} \rightarrow \begin{cases} \text{معادله خط: } m = 3 \\ \text{معادله خط: } \Delta > 0 \rightarrow \frac{c}{a} = -1 \end{cases}$$

حاصل ضرب مقادیر m ← (-3)