

$$x = \frac{-b}{2a} = \frac{-2}{2} = -1$$

$$y = 2 - 1 + 1 = 2$$

✓ *تقسیم دار* ✓ $[-1]$



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$$x = \frac{-b}{2a} = \frac{-2}{-2} = 1$$

$$y = -\frac{1}{1} + \frac{9}{1} - 5 = 3$$

✓ $\left[\begin{matrix} 1 \\ 3 \\ -1 \end{matrix} \right]$

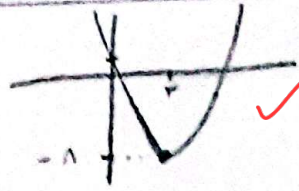
✓ *تقسیم دار*

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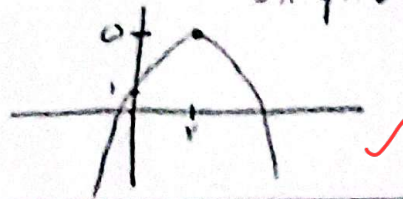
$$x = \frac{-b}{2a} = 2$$

$$y = 9 - 18 + 1 = -8$$



$$x = \frac{-b}{2a} = 2$$

$$y = -4 + 8 + 1 = 5$$



$$a = \frac{-1}{B}$$

$$\frac{-1}{B} + B = 1 \Rightarrow B^2 - B - 2 = 0 \rightarrow B = 2 \quad a = 1$$

$$\rightarrow B = -1 \quad a = 2$$

هر دو صدق کند

$$\begin{cases} 4(\lambda) + 2k - 18 - 2 = 0 \Rightarrow k = -2 \\ -4 + k + 9 - 2 = 0 \Rightarrow k = -3 \end{cases}$$

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$$|\sqrt{x_1} - \sqrt{x_2}| = 1 \Rightarrow \underbrace{x_1 + x_2}_{\frac{2}{m}} - 2\sqrt{x_1 x_2}_m = 1$$

$$2m - 2\sqrt{m} = 1$$

$$2m - 2\sqrt{m} - 1 = 0$$

$$P_r = \frac{-m}{p} = \frac{-1}{2} \quad \checkmark$$

$$(2\sqrt{m} + 1)(\sqrt{m} - 1) = 0 \rightarrow \begin{cases} \sqrt{m} = -\frac{1}{2} \times \\ \sqrt{m} = 1 \Rightarrow m = 1 \end{cases}$$

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$$|m| \times \frac{\sqrt{\Delta}}{|a|} \times \frac{1}{2} = \frac{2}{2} \Rightarrow \frac{|m| \sqrt{(m-2)^2}}{2} = \frac{2}{2} \Rightarrow |m| |m-2| = 2$$

$$m^2 - 2|m| - 2 = 0 \rightarrow \begin{cases} |m| = 2 \Rightarrow m = 2, m = -2 \\ |m| = -1 \times \end{cases}$$

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$$x_A = \frac{-b}{2a} = \frac{-(-m)}{2} \rightarrow \begin{cases} \frac{m}{2} \\ -\frac{m}{2} \end{cases} \quad \left\{ \frac{2}{2}, -\frac{2}{2} \right\}$$

مندی در این صورت $\rightarrow a < 0$

$$y_A = \frac{fa^2 - 9}{fa} = \frac{y}{a} \Rightarrow 1a^2 - va - 1a = 0 \rightarrow \begin{cases} 2\checkmark \\ -\frac{9}{a} \times \end{cases}$$

فقط برای $a=2$ برقرار است \checkmark بدست

$$\frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{(a-1)^2}}{1} = 2 \rightarrow a=3 \rightarrow 2x^2 - 2x + 2 = 0 \rightarrow x=1, 1 \checkmark$$

$$\rightarrow a=-1 \rightarrow x^2 - 1 = 0 \rightarrow x=1, x=-1 \times$$

$$\frac{\sqrt{\Delta}}{|a|} = 2 \Rightarrow \sqrt{100 - 4b} = 2 \Rightarrow b = 24 \checkmark$$

$$|P_1 - P_2| = \frac{c_1}{a_1} - \frac{c_2}{a_2} = |3 - 24| = 21 \checkmark$$

$$a+b = -\frac{b}{a} = a^2 + b^2 - 12 \Rightarrow a+1 = a^2 + 1 - 12$$

$$a^2 - a - 12 = 0 \rightarrow \begin{cases} a = -3 \times \\ a = 4 \checkmark \end{cases}$$

$$a \times b = a + b - 1$$

مختصات از آنجا که \perp بوده است

$$a+b = 4+1 = 5 \checkmark$$

$$B \times a = \frac{B}{\sqrt{5}a} \Rightarrow a = \frac{1}{\sqrt{5}a} \Rightarrow a = \pm \frac{1}{5}$$

$$\Delta = 16 - 20B \Rightarrow \begin{cases} B > a & a > 0 \\ B < 0 & \times \end{cases}$$

$$\begin{cases} 5x^2 + 4x + B = 0 \\ -5x^2 + 4x + B = 0 \end{cases} \Rightarrow \frac{1}{5} - \frac{4}{5} + B = 0 \Rightarrow B = 1$$

$$x_A = \frac{-b}{fa} = \frac{-4}{-10} = \frac{2}{5} \quad y_A = \frac{-49}{-10} = \frac{49}{10} \quad \checkmark \text{ نامی اول}$$

$$x_A = \frac{-b}{fa} = \frac{-a}{-fa} = \frac{1}{f}$$

$$y_A = -\frac{1}{f}a + \frac{1}{f}a + 2 = 2 + \frac{1}{f}a$$

$$x_A = \frac{b}{fb} = \frac{1}{f}$$

$$y_A = \frac{1}{f}b - \frac{1}{f}b - 1 = -\frac{1}{f}b - 1$$

$$2 + \frac{1}{f}a = \frac{1}{f}b - \frac{1}{f}b - 1 \Rightarrow a = -12 \checkmark$$

$$-\frac{1}{f}b - 1 = -\frac{1}{14}a + \frac{1}{f}a + 2 \Rightarrow$$

$$-b - 1 = -\frac{1}{14}(12) + 2 + 14 \Rightarrow b = -14 \checkmark$$

$$S_1 \left(\frac{1}{r}, \frac{a^r + na}{ra} \right)$$

$$S_r \left(\frac{1}{r}, \frac{b^r + nb}{-nb} \right)$$

-1

$$\frac{a}{r} + r = \frac{b}{r} - \frac{b}{r} - 1 \rightarrow a = -1r$$

$$\left. \begin{array}{l} \frac{a}{r} + r = \frac{b}{r} - \frac{b}{r} - 1 \\ -\frac{a}{14} + \frac{a}{r} + r = -\frac{b}{1} - 1 \end{array} \right\} b - a = \boxed{4}$$

$$-\frac{a}{14} + \frac{a}{r} + r = -\frac{b}{1} - 1 \rightarrow b = -4$$

$$|m(m-r)| = r \rightarrow m(m-r) = r \rightarrow \begin{cases} m = -1 \\ m = r \end{cases}$$

-2

$$m = -1 \rightarrow y = u^r + u + 1 \rightarrow -\frac{b}{ra} = \frac{-1}{r}$$

$$m = r \rightarrow y = u^r - ru + 1 \rightarrow -\frac{b}{ra} = \frac{r}{r}$$