

$$y = ax + bx + c$$

$$A = (-1, 9) \Rightarrow \frac{-b}{1a} = -1 \Rightarrow b = 9a$$

$$\begin{cases} 9a - b + c \\ 1 = 9a + 9b + c \end{cases} \xrightarrow{f \times 1a} -11a + 8b \Rightarrow -11a = 14a \Rightarrow a = \boxed{-\frac{1}{5}}$$

$$y = -\frac{1}{5}x^2 - x + \frac{14}{5}$$

$$b = -11$$

$$c = \frac{14}{5}$$

$$\Delta > 0 \Rightarrow b^2 > 4ac \Rightarrow m^2 > 4(m+1)(m-1) \Rightarrow m^2 - 4m - 4 > 0 \Rightarrow (m+1)(m-5) \quad (I)$$

$$\frac{-1 \pm 15}{2 \pm 1 \pm 1}$$

$$S > 0 \Rightarrow -\frac{m}{5} > 0 \Rightarrow m < 0 \Rightarrow m < -1$$

$$P > 0 \Rightarrow \frac{m+4}{5} > 0 \Rightarrow m+4 > 0 \Rightarrow m > -4$$

$$-4 < m < -1$$

as /

$$m^2 + (1-m)m + 1-m = 0$$

$$\Delta > 0 \Rightarrow 1 - 4(1-m)(1-m) \Rightarrow 1 - 4(1-m)^2 > 0$$

$$S, \frac{1}{p} \Rightarrow \frac{-b}{a} = \frac{q}{c} \Rightarrow a^2 = -bc$$

$$a = -(1-m)(1-m) \Rightarrow q = 1-m-1+m^2 \Rightarrow 1-m^2-1+m = 0$$

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

$$m = -1 \Rightarrow y = 1x^2 - 1x + 1$$

$$\Delta < 0$$

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$$m = \frac{1}{2} \Rightarrow y = 1x^2 + \frac{1}{2}x - \frac{1}{2} \quad \checkmark$$

$$\Delta > 0$$

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$$x^r - x - \frac{1}{x}$$

$$S^r - 2P = 1 + 12$$

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$$S = x^r + \frac{1}{x} + x^r + \frac{1}{x} \Rightarrow x^r + x^r + \frac{1}{x} + \frac{1}{x} \Rightarrow$$

$$12 - \frac{1}{x} = \left[\frac{21}{x} \right]$$

$$\frac{x_1 + x_2}{x_1 x_2}$$

$$P_2 \left(x^r + \frac{1}{x} \right) \left(x^r + \frac{1}{x} \right) \Rightarrow \underbrace{x^r x^r}_{(P)^r} + \underbrace{\frac{x^r}{x} + \frac{x^r}{x}}_{S^r - 2P} + \underbrace{\frac{1}{x} + \frac{1}{x}}_{\frac{1}{P}} \Rightarrow$$

$$10 \quad -4x + 1 + 1 - \frac{1}{x} = \left[\frac{-21}{x} \right]$$

$$y \cdot x^r - 3x + P \Rightarrow \left[y \cdot x^r - \frac{21}{x} - \frac{21}{x} \right]$$

$$15 \quad x\sqrt{x} - \sqrt{x} + 1 - \frac{1}{\sqrt{x}} + \sqrt{x} - 1 = 2\sqrt{x} \Rightarrow$$

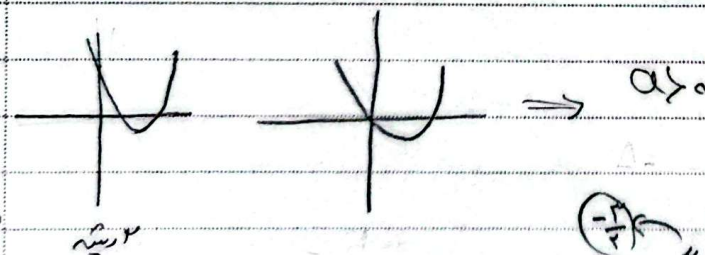
$$\sqrt{x^3} - \frac{\sqrt{x}}{x} - 2\sqrt{x} = 0 \xrightarrow{\times x} x^r \sqrt{x} - 2x \sqrt{x} - \sqrt{x} = 0 \Rightarrow$$

$$20 \quad (x^r) x - (2\sqrt{x}) x - \sqrt{x} = 0 \Rightarrow S = \frac{-b}{a} = \frac{2\sqrt{x}}{\sqrt{x}} = [2]$$

$$x_r = 3x, \quad x_1 + x_2 \Rightarrow x + 3x_1 = 4x_1, \quad x_1 x_2 = 3x^r$$

$$S = \frac{-b}{a} = \frac{a}{3} = 4x_1 \Rightarrow 12x_1 = a \xrightarrow{\begin{matrix} \Delta = a \\ -\Delta = a \end{matrix}} \Delta = a \Rightarrow -1 - 1 = [-14] \text{ پاسخ}$$

$$25 \quad P = \frac{c}{a} = \frac{f}{3} = 3x^r \Rightarrow 9x^r = f \Rightarrow x^r = \frac{f}{9} \Rightarrow \left[x_1 = +\frac{2}{3} \right]$$



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$$\left(-\frac{f}{9} \right) \quad S = \frac{-f - 12a}{a} > 0 \quad \frac{-f}{-9 + 3} = \frac{-f}{-6} > 0 \Rightarrow \frac{f}{6} < 0$$

P=0

مهرین مقدارهای a اشتراک بگیریم به ازای جایی مقدار این سه به هم برقرار نیست.

(1)

$$a = \frac{-b}{r} \Rightarrow \frac{-a}{r} = \frac{r}{-r} \Rightarrow \boxed{r = a}$$

$$\begin{cases} y = x^2 + rx - r \\ y = -x^2 - rx + b \end{cases} \Rightarrow \begin{cases} 1 = x^2 + rx - r \\ 1 = -x^2 - rx + b \end{cases}$$

$$r = b - r$$

$$\boxed{r = b}$$

$$\boxed{ab = r \times r = 1}$$

$$\alpha, \beta \Rightarrow \left(\alpha + \frac{1}{r}\right)\left(\beta + \frac{1}{r}\right)$$

(2)

$$S = \frac{-a}{ra} = \frac{-1}{r} = \alpha + \beta$$

$$\frac{a \times b}{c} = \left[\frac{-r}{r}\right] = \boxed{-r}$$

$$P = \frac{c}{a} = \frac{-4}{ra} = \frac{-r}{a} = \alpha\beta \Rightarrow -r = \alpha\beta$$

$$rx^2 - ax + b = 0$$

$$\frac{1}{r}$$

$$S = \frac{a}{r} = \alpha + \frac{1}{r} + \beta + \frac{1}{r} \Rightarrow \alpha + \beta + 1 = \frac{a}{r} \Rightarrow \boxed{a = 1}$$

$$P = \frac{b}{c} = \left(\alpha + \frac{1}{r}\right)\left(\beta + \frac{1}{r}\right) \Rightarrow \frac{b}{r} = \frac{1}{r} + (\alpha + \beta)\frac{1}{r} + \alpha\beta \Rightarrow$$

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$$\frac{b}{r} = \frac{1}{r} + \frac{1}{r} - r \Rightarrow \boxed{b = -4}$$

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$$x' + 4x + m = 1 \Rightarrow S' = \frac{-4}{1} = -4 \Rightarrow x_1 + x_2$$

$$x' + 4x + m = 1 \Rightarrow S'' = \frac{-4}{1} = -4 \Rightarrow x_1 + x_2$$

$$S' - S'' \Rightarrow x_1 + x_2 - (x_1 + x_2) = x_2 - x_1 \Rightarrow -4 + 4 = 0$$

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