

$$y = a(x+1)^2 + 9 \Rightarrow 1 = 16a + 9 \quad 16a = -8 \quad a = -\frac{1}{2} = -\frac{1}{4}$$

$$y = -\frac{1}{4}(x^2 + 2x + 1) + 9 = -\frac{1}{4}x^2 - \frac{1}{2}x - \frac{1}{4} + 9 = -\frac{1}{4}x^2 - \frac{1}{2}x + \frac{17}{4} = -x^2 - 2x + 17$$

$$2x^2 + mx + (m+6) = 0 \quad \Delta > 0$$

$$S > 0 \quad P > 0$$

$$\frac{-m}{2} > 0 \quad \frac{m+6}{2} > 0$$

$$m < 0 \quad m > -6$$

$$m^2 - 4(m+6) > 0$$

$$(m-12)(m+6) > 0$$

$$m > 12 \quad m < -6$$

$$m \in (-6, -1)$$

$$S = \frac{1}{AB} \Rightarrow a+B = \frac{1}{AB} \therefore \frac{1-2m}{2} = \frac{1}{2-m}$$

$$9 = \frac{1}{2} (2m^2 - 2m + 2m^2)$$

$$2m^2 - 2m - 18 = 0$$

$$a+c=b \quad m = -1$$

$$m = \frac{1}{2} \quad \Delta > 0 \Rightarrow m = \frac{1}{2}$$

$$x^2 - x - 1 = 0 \quad x_1 = \alpha \quad x_2 = \beta \quad S = \alpha^2 + \frac{1}{\alpha} + \beta^2 + \frac{1}{\beta} = \frac{\alpha^2 + \beta^2}{\alpha\beta} + \frac{\alpha + \beta}{\alpha\beta}$$

$$S = S - 2PS + \frac{S}{P} = 1 + 1 + \frac{1}{-1} = 1 + 1 - 1 = 1$$

$$P = (\alpha + \frac{1}{\alpha})(\beta + \frac{1}{\beta}) = \alpha\beta + \alpha + \beta + \frac{1}{\alpha\beta} = P + S - 2P + \frac{1}{P} = -1 + 9 - \frac{1}{-1} = 9$$

$$y = x^2 - Sx + P = x^2 - 1x + 9 = (x^2 - x + 9) = 0$$

$$\sqrt{x} = t \quad (t^2 + \frac{1}{t^2} + 1)(t^2 - 1) = 2t \quad (t^2 + t + 1)(t^2 - 1) = 2t \Rightarrow t^4 + t^2 + 1 = (t^2 + t + 1)(t^2 - 1)$$

$$t^4 - 1 = (t^2 + t + 1)(t^2 - 1) \Rightarrow (t^2 + t + 1)(t^2 - 1) = t^4 - 1$$

$$t^4 - 1 = 0 \quad t^2 = 1 \quad t = \pm 1$$

$$y = 1 \pm \sqrt{x} = x$$

$$x_1 + x_2 = 1 + \sqrt{x} + 1 - \sqrt{x} = 2$$

$$2x^2 - ax + f$$

$$\alpha = 2K \quad B = K$$

$$S = fK = \frac{a}{2}$$

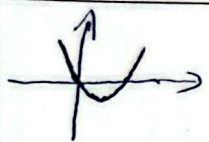
$$K = \frac{a}{2} = \pm \frac{2}{2} \Rightarrow \alpha = \pm 1$$

$$P = 2K^2 = \frac{f}{2}$$

$$K^2 = \frac{f}{2} \quad K = \pm \frac{2}{2}$$

$$1 - (-1) = 1 \neq$$

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عرفت از شما
ندارد
بکارت صفر
بکارت مسدود
S > 0
P = 0

$$ax^2 + (2+2a)x$$

$$\begin{aligned} & \left(\begin{array}{l} a > 0 \\ \frac{2+2a}{-a} > 0 \end{array} \right) \cap \left(\begin{array}{l} -\frac{2}{2a} < 0 \end{array} \right) \Rightarrow \emptyset \text{ هیچ عددی} \\ & \begin{array}{l} 2a = -2 \\ a = -\frac{2}{2} \end{array} \quad \begin{array}{l} -\frac{2}{2} = 0 \\ -\frac{2}{2} = 0 \end{array} \\ & \left(\begin{array}{l} 1 > 0 \\ (2+2a)^2 \end{array} \right) \text{ همواره مثبت است} \end{aligned}$$

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$$y = -x^2 - 2x + b$$

$$y = x^2 + ax - 2$$

$$1 = -x^2 + 2x + b$$

$$ab = 2 \times 0 = 0$$

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

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

$$y = 1$$

$$\Delta = 0$$

$$\begin{aligned} f - f + fb &= 0 \\ fb &= 0 \\ b &= 0 \end{aligned}$$

$$\frac{-a}{2} = -1 \Rightarrow -a = -2 \Rightarrow a = 2$$

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$$2ax^2 + ax - 9 = 0$$

$$2x^2 - ax + b$$

$$\alpha, B$$

$$\alpha + \frac{1}{2}, B + \frac{1}{2}$$

$$S = \frac{-a}{2a} = -\frac{1}{2}$$

$$\begin{aligned} S' &= S + 1 \\ \frac{a}{2} &= -\frac{1}{2} + 1 = \frac{1}{2} \\ a &= 1 \end{aligned}$$

$$P = \frac{-9}{2a} = \frac{-9}{2} = -\frac{9}{2}$$

$$P = \left(\alpha + \frac{1}{2}\right)\left(B + \frac{1}{2}\right) = \alpha B + \frac{1}{2}\alpha + \frac{1}{2}B + \frac{1}{4}$$

$$P + \frac{1}{2}S + \frac{1}{4}$$

$$-2 - \frac{1}{2} + \frac{1}{4} = -\frac{9}{4} = P' = \frac{b}{2}$$

$$\left[\frac{ab}{f}\right] = \left[\frac{(1) \times (-9)}{2}\right] = \left[-\frac{9}{2}\right] = -\frac{9}{2}$$

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$$x^2 + 4x + m - x^2 - 2x + 2m = 0$$

$$fx + fm = 0 \quad x = -\frac{m}{f}$$

$$(-m)^2 + 4(-m) + m = 0$$

$$S \text{ معلوم است} = x^2 + 4x + a = (x+1)(x+a)$$

$$m^2 - 9m + m = 0$$

$$S \text{ معلوم است} = x^2 + 2x - 1 = (x+1)(x-1)$$

$$m^2 - 8m = 0$$

$$-1 = \text{ریشه مشترک}$$

$$m(m-8) = 0$$

$$2 - (-1) = 3 = \text{اولی فرمهای غیر مشترک}$$

$$m = 0 \quad m = 8$$

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