

نیزین زحرا شینین
دوم رخت A - تطیف سری ۲۳

سوال ۱

$$y = ax^2 + bx + c \Rightarrow y = ax^2 + 2ax + a - 4$$

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

$$y = \frac{a}{1} x^2 + \frac{-2a}{1} x - \frac{4}{1}$$

$$\frac{-\Delta}{2a} = \frac{2a^2 - 4a}{2a} = \frac{2a(a-2)}{2a} = a-2 = -1 \Rightarrow a-2 = -1 \Rightarrow a = 1$$

$$(1,1) \rightarrow 1 = 1a + 2a + a - 4 \Rightarrow 4a = 1 \Rightarrow a = \frac{1}{4} = \frac{1}{4}$$

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

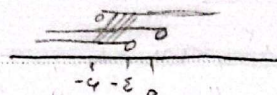
سوال ۲

$$\Delta > 0 \Rightarrow m^2 - 4(m+4) > 0 \quad (m+2)(m-6) > 0 \quad m > 6, m < -2$$

$$D > 0 \Rightarrow \frac{C}{a} > 0 \quad \frac{m+4}{2} > 0 \quad m > -4$$

$$S > 0 \Rightarrow \frac{-m}{2} > 0 \quad m < 0$$

$$-4 < m < -2$$



$$3x^2 + (2m-1)x + 2-m = 0$$

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

سوال ۳

$$S = \alpha + \beta = -\frac{b}{a} = \frac{1-2m}{2}$$

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

$$P = \frac{c}{a} = \frac{2-m}{2}$$

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

$$S = \frac{1}{P} \Rightarrow \frac{1-2m}{2} = \frac{2}{2-m}$$

$$(1-2m)(2-m) = 4$$

$$\Delta > 0 \Rightarrow m^2 - 4m + 2 > 0$$

$$(m-2)(m-1) > 0 \Rightarrow m < 1, m > 2$$

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پیکو

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

$$S = 4x = \frac{a}{x} \Rightarrow x = \frac{a}{4x}$$

$$P = 4x^2 = \frac{4}{x} \Rightarrow x^2 = \frac{1}{x} \Rightarrow \frac{a^2}{16} = \frac{1}{x} \Rightarrow a^2 = 4x \Rightarrow a = \pm 2$$

تفاضل

$$1 - (-1) = 14$$

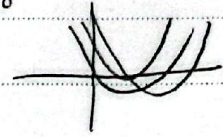
$$y = ax^2 + (3+2a)x$$

$$x < 0, y < 0 \Rightarrow x^2 > 0 \Rightarrow y > 0$$

$$ax^2 + (3+2a)x > 0 \Rightarrow x(ax + 3+2a) > 0 \Rightarrow ax + (3+2a) < 0$$

$$a > 0 \Rightarrow x < -\frac{3+2a}{a} \Rightarrow x < -a$$

$$a > 0$$



$$a = 0 \Rightarrow 3 < 0 \text{ غير ممكن}$$

$$a < 0 \Rightarrow -x + 1, 2 > 0 \Rightarrow x > 1, 2$$

$$y = -x^2 - 2x + b, y = x^2 - ax - 2 \Rightarrow x^2 - 2x - 2 = y$$

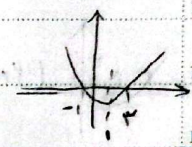
$$0 = -x^2 - 2x + b \Rightarrow x = 1$$

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

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$$y = 1 \Rightarrow x^2 - 2x - 2 = 0 \Rightarrow (x-3)(x+1) = 0 \Rightarrow x = 3, x = -1$$



$$-(1+3) - 2(1+3) + b = -1 - 2(4) - 2 + b = y$$

$$y = 1 \Rightarrow 1 = -1 - 2(4) - 2 + b$$

$$b = 1 + 1 + 8 + 2 \Rightarrow b = 12 \Rightarrow b = 12$$

$$b = 12$$

$$ab = -32$$

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$$x^2 - ax + b = 0, 2ax^2 - ax - 4 = 0$$

$$S = \frac{a}{2} \left[\left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \right] S = -\frac{1}{2}$$

$$P = \frac{b}{2} \Rightarrow P = -\frac{3}{2}$$

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

$$\Rightarrow \left[\frac{ab}{2} \right] = \left[\frac{-4}{2} \right] = \left[\frac{-3}{2} \right] = [-1.5] = -2$$

$$\Rightarrow -2 = \frac{b}{2} \Rightarrow b = -4$$

$$x^2 + 4x + m = 0, x^2 + 2x - 3m = 0, x^2 + 2x + 15 = 0$$

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

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

$$\Rightarrow -(x^2 + 4x) = \frac{x^2 + 2x}{2} \Rightarrow -2x^2 - 8x = x^2 + 2x \Rightarrow -3x^2 - 10x = 0$$

$$-2x^2 - 8x = 0 \Rightarrow x = 0, x = -4$$

$$S = -\frac{b}{a} = -\frac{-4}{-1} = -4 \Rightarrow -4 = -\frac{a}{2} \Rightarrow a = 8$$

$$x^2 + 2x + 15 = 0 \Rightarrow x = -1 \pm \sqrt{14}$$

$$S = -2 \Rightarrow -2 = -\frac{a}{2} \Rightarrow a = 4$$

