

نام و نام خانوادگی: ترکس افشاری

پاسخنامه تشریحی تکالیف شماره ① - تلاش: دهم دفتر ۱

$$2x^2 - 7x + 1 = 0 \quad (x-3)^2 = 1 \Rightarrow x = \begin{cases} x=2 \\ x=4 \end{cases}$$

1

$$2x^2 + 11x + 7 = 0 \Rightarrow (2x+7)^2 = 9$$

$$2x+7 = \pm 3 \Rightarrow x = -1, -7$$

$$x^2 - 5x + 6 = 0 \quad (x-2)(x-3) \Rightarrow x = 2, 3$$

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$$x^2 - 5x - 14 = 0 \quad (x-7)(x+2) \Rightarrow x = 7, -2$$

$$2x^2 - 3x - 2 = 0 \quad \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\frac{3 \pm \sqrt{9 - 4 \cdot 2 \cdot (-2)}}{2 \cdot 2} = \frac{3 \pm \sqrt{25}}{4}$$

3

$$2x^2 - 5x + \frac{1}{2} = 0 \quad \frac{5 \pm \sqrt{25 - 4 \cdot 2 \cdot \frac{1}{2}}}{2 \cdot 2} = \frac{5 \pm \sqrt{17}}{4}$$

$$x^2 - 3x + 2 = 0$$

$$a+b+c=0 \Rightarrow x=1, x=\frac{c}{a} \Rightarrow x=1, 2$$

4

$$x^2 + x - 3 = 0$$

$$a+c=b \Rightarrow x=-1, x=-\frac{c}{a} \Rightarrow x=-1, \frac{3}{f}$$

$$x^2 + 5x - 36 = 0$$

$$x^2 - 12x + 36 = 0$$

$$(x-6)^2 = 0 \Rightarrow x=6$$

$$x^2 - 12x + 36 = 0$$

$$x^2 - 10x + 21 = 0$$

$$(x-7)(x-3) = 0 \Rightarrow x = \frac{7}{3}, 3$$

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$$x^2 - 12x + 36 = 0$$

$$\begin{aligned} -3zc^2 + 5zc - 1 &= 0 \quad \text{شماره} & 2zc^2 - 4zc + 2 &= 0 \\ -5 \pm \sqrt{25 - 12} &= \left(\frac{-5 \pm \sqrt{13}}{-3} \right) & \frac{4 \pm \sqrt{16 - 16}}{2} &= \frac{4 \pm 0}{2} = 2 \end{aligned} \quad \text{نقشه 1}$$

$$2zc^2 - 2c + 2 = 0$$

$$2zc^2 - 2c + 1 = 0$$

$$\frac{1 \pm \sqrt{1 - 4}}{2} = \frac{1 \pm \sqrt{-3}}{2} \quad \text{نقشه 2} \quad \frac{1 \pm \sqrt{1 - 4}}{2} = \frac{1 \pm \sqrt{-3}}{2} \quad \text{نقشه 3}$$

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$$\begin{aligned} 2zc^2 - 3zc + 1 &= 0 \quad \text{شماره} & 3 \pm \sqrt{9 - 4} &= \frac{3 \pm 1}{2} = 2 \quad \text{الف} \\ -5 \pm \sqrt{25 - 12} &= \left(\frac{-5 \pm \sqrt{13}}{-3} \right) & \frac{3 - 1}{2} &= \frac{2}{2} = 1 \end{aligned}$$

$$2zc^2 - 3zc + 1 = 0 \quad \left(\sqrt{2}zc - \sqrt{\frac{1}{2}} \right)^2 = 0$$

$$2zc^2 - 3zc + 1 = 0 \quad \frac{3 \pm \sqrt{9 - 4}}{2} = \frac{3 \pm 1}{2} = 2 \quad \text{ب}$$

$$2zc^2 - 3zc + 1 = 0 \quad zc^2 - 3zc - 1 = 0 \quad (zc - 1)(zc + 1) = 0 \Rightarrow zc = 1 \text{ or } -1 \quad \text{ج}$$

$$y = 2c^2 + 4c + 5$$

$$\min \left| \begin{matrix} -5 \\ -4 \end{matrix} \right|$$



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$$y = -2c^2 + 8c - 3$$

$$\max \left| \begin{matrix} 3 \\ 1 \end{matrix} \right|$$



تقاطع می کند $(150) \text{ و } (300) \Rightarrow$

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$$2c^2 - 3zc - 2 = 0 \quad \text{الف) } S^2 - 2P = 9 + 16 = 25 \quad \text{ب) } S^2 - 3SP = 9 + 36 = 45$$

$$\frac{3 \pm \sqrt{9 + 16}}{2} = \frac{3 \pm \sqrt{25}}{2} = \frac{3 \pm 5}{2} = 4 \text{ or } -1 \Rightarrow S$$

$$\left(\frac{3 + \sqrt{25}}{2} \right) \times \left(\frac{3 - \sqrt{25}}{2} \right) = \frac{9 - 25}{2} = \frac{-16}{2} = -8 \Rightarrow P$$

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