

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-2 \pm \sqrt{12}}{-4}$$

$$b) \frac{1 \pm \sqrt{1-12}}{2} \Delta < 0$$

$$c) \frac{5 \pm \sqrt{25-12}}{2} \Delta > 0$$

$$d) \frac{1 \pm \sqrt{1-12}}{2} \Delta < 0$$

$$x^2 - 3x + 2 = 0 \quad x = 1 \quad x^2 - 3x + 1 = 0 \quad (x-2)(x-1) = 0 \quad x < \frac{1}{2} \quad (1-\infty) \Delta > 0$$

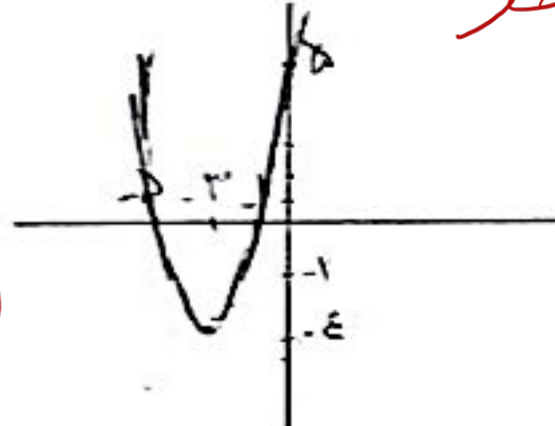
$$x^2 - 3x + \frac{9}{4} = 0 \quad x = \frac{3}{2}$$

$$x^2 - 3x + 1 = 0 \quad b^2 - 4ac = 0 \quad b^2 = 4ac \quad 9 = 4 \times 1 \times \frac{9}{4}$$

$$b^2 - 4ac > 0 \quad [1-\infty] \quad b^2 - 4ac < 0 \quad 9 < 4 \times 1 \times x \quad (x+\infty)$$

$$y = x^2 + 4x + 2 \quad x = \frac{-b}{2a} = \frac{-4}{2} = -2 \quad \begin{bmatrix} -2 \\ -2 \end{bmatrix}$$

$$y_A = 9 - 16 + 2 = -5 \quad (x+1)(x+2) = 0 \quad x = -1, -2$$

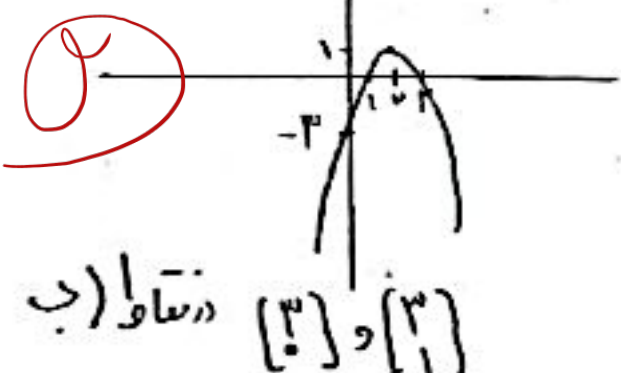


$$y = -x^2 + 6x - 3 \quad x = \frac{-b}{2a} = \frac{-6}{-2} = 3 \quad \begin{bmatrix} 3 \\ 1 \end{bmatrix}$$

$$y = -9 + 18 - 3 = 6$$

$$y = x^2 + 6x + 3 \quad (x+3)(x+1) = 0 \quad x = -3, -1$$

$$x = \frac{-3}{-1} = 3 \quad x = \frac{-1}{-1} = 1$$



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

$$\text{جمع} = \frac{-b}{a} = \frac{3}{1} = 3 \quad \text{ضرب} = \frac{c}{a} = \frac{-2}{1} = -2$$

$$3^2 - (3 \times 2) = 9 - 6 = 3$$

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نام خانوادگی ریاضی با شماره ثبتی تکلیف، شماره ا کلاس ۸ دهم

$$(الف) (n-2)(n-4)=0 \quad n \begin{cases} 2 \\ 4 \end{cases}$$

$$(ب) (n+1)(n+7)=0 \quad n \begin{cases} -1 \\ -7 \end{cases}$$

$$(الف) (n-2)(n-3)=0 \quad n \begin{cases} 2 \\ 3 \end{cases}$$

$$(ب) (n-7)(n+2)=0 \quad n = \begin{cases} 7 \\ -2 \end{cases}$$

$$(الف) \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{3 \pm \sqrt{9+16}}{2} \Rightarrow \frac{3+\sqrt{25}}{2}; \frac{3-\sqrt{25}}{2}$$

$$(ب) \frac{c \pm \sqrt{14-c}}{c} \Rightarrow \frac{c+\sqrt{14-c}}{c}; \frac{c-\sqrt{14-c}}{c}$$

$$(الف) (n-2)(n-1)=0 \quad n \begin{cases} 2 \\ 1 \end{cases} \quad \text{جهت مستقیم}$$

$$(ب) \quad n^2 + n - 12 = 0 \quad n \begin{cases} \frac{3}{-4} \\ \frac{-4}{3} = -1 \end{cases} \quad \text{اردش ردی}$$

$$(الف) n^2 - 14n + 49 = 0 \quad (n-7)(n-7)=0 \quad n = \begin{cases} 7 \\ 7 \end{cases}$$

$$(ب) n^2 - 10n + 21 = 0 \quad (n-3)(n-7)=0 \quad n = \begin{cases} 3 \\ 7 \end{cases}$$

حل سوال ۷

$$\Delta > 0 \rightarrow (-3)^2 - 4(1)(a) > 0 \rightarrow a < \frac{9}{4}$$

ب) $\Delta = 0 \rightarrow (-3)^2 - 4(1)(a) = 0 \rightarrow a = \frac{9}{4}$

ج) $\Delta < 0 \rightarrow (-3)^2 - 4(1)(a) < 0$
 $a > \frac{9}{4}$

د) $\Delta \geq 0 \rightarrow (-3)^2 - 4(1)(a) \geq 0 \rightarrow a \leq \frac{9}{4}$