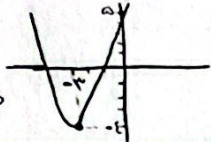


$y = x^2 + 4x + 5 \rightarrow$ عرض از مبدا

الف) $a \gamma \rightarrow \min \mid \frac{b}{\gamma a} \rightarrow \frac{-4}{\gamma} = (-2) \text{ عند } \gamma = 2$

ext قیادت $\begin{bmatrix} -3 \\ -2 \end{bmatrix}$ $\left| \begin{array}{l} \text{مستقیم} \rightarrow \begin{pmatrix} 5 \\ 9 \end{pmatrix}^2 = 4 \frac{(-2)}{-13} + 15 \rightarrow 9 - 13 \rightarrow \textcircled{-4} \end{array} \right.$

ext $\rightarrow$ min



$$y = -x^2 + 4x \quad \text{sym: } 100\% \Rightarrow a < 0 \rightarrow \max \left| \frac{-b}{2a} \rightarrow \frac{-\cancel{2}}{-4} = 1 \text{ do}$$

جوابی → $-(x)^2 + 2(x) - 3 \rightarrow -x^2 + 2x - 3 = (+1)$ جوابی

[۲] → مقدار ext → الف



$$-1 + \sum_{i=1}^n -\gamma_i = 0$$

9.12.2017

و آن اشیای که همان مقام (۱۱) و (۱۳) هستند که میانیین آنها (۶) می شود.

$$y_n'' - y_n + a = 0 \quad (a n^2 + b n + c = 0)$$

الف) $\Delta \rightarrow \Delta = b^2 - 4ac \rightarrow (-3)^2 - 4(2 \times a) \rightarrow 9 - 8a \rightarrow a < \frac{9}{8}$

ج) $\frac{2}{\lambda} \rightarrow \Delta z \rightarrow q - \lambda \alpha = 0 \rightarrow \alpha = \frac{q}{\lambda}$

2) $\frac{p}{\rho} \rightarrow \Delta \phi \rightarrow q - \Delta \phi \rightarrow \left(\alpha > \frac{q}{\lambda} \right)$

$$1) \text{ رِسْمِ حَقِيقَةِ دَلِيلَةِ بَابِ } 9 \rightarrow 9 \text{ تا } 10 \rightarrow a \leq \frac{9}{1}$$

الف) $x^2 - 2x - 1 = 0 \xrightarrow{+2} x^2 - 2x + 1 = 2 \rightarrow (x-1)^2 = 2 \rightarrow x-1 = \pm\sqrt{2} \rightarrow \begin{cases} x = 1 + \sqrt{2} \\ x = 1 - \sqrt{2} \end{cases}$

$$2) \quad x^2 - x - 1 = 0 \quad \xrightarrow{+\frac{1}{2}}$$

$$x^2 - x + \frac{1}{4} = \frac{5}{4} \quad \rightarrow \quad \left(x - \frac{1}{2}\right)^2 = \frac{5}{4}$$

$$x - \frac{1}{2} = \pm \sqrt{\frac{5}{4}} \quad \rightarrow \quad x - \frac{1}{2} = \pm \frac{\sqrt{5}}{2} \quad \rightarrow \quad x = \frac{1 + \sqrt{5}}{2} \quad \text{و} \quad x = \frac{1 - \sqrt{5}}{2}$$

$$\text{جواب 1) } x^2 - x - 1 = 0 \rightarrow \Delta = b^2 - 4ac \rightarrow \Delta = 5 \rightarrow x = \frac{-b \pm \sqrt{\Delta}}{2a} \rightarrow \frac{1 \pm \sqrt{5}}{2} \rightarrow x_1 = \frac{1 + \sqrt{5}}{2}$$

$$n = \frac{1 - \sqrt{1}}{1} \rightarrow n = \frac{1 - 1}{1} \rightarrow n = 0$$

$$\rightarrow x^2 + x - 2 = 0 \rightarrow \Delta = b^2 - 4ac \rightarrow 1 - 4(1)(-2) \rightarrow \textcircled{IV} \mid x = \frac{-b \pm \sqrt{\Delta}}{2a} \rightarrow x = \frac{-1 \pm \sqrt{9}}{2}$$

$$r = \frac{-1 + \sqrt{17}}{2}$$

$$n = \frac{-1 - \sqrt{14}}{x}$$

الف) $x^2 - 11x + 28 = 0 \rightarrow (x - 4)(x - 7) = 0 \rightarrow \begin{cases} x=4 \\ x=7 \end{cases}$ (علیه منکر) ب) $x^2 + 7x - 28 = 0 \rightarrow (x - 4)(x + 7) = 0 \rightarrow \begin{cases} x=4 \\ x=-7 \end{cases}$	۶
الف) $5x^2 - 12x + 7 = 0 \xrightarrow{\text{دیس}} x^2 - 12x + 35 = 0 \rightarrow (x - 5)(x - 7) = 0$ $\begin{cases} x=5 \xrightarrow{\div 5} \textcircled{1} \\ x=7 \xrightarrow{\div 5} \textcircled{\frac{7}{5}} \end{cases}$ جواب ب) $3x^2 - 10x + 7 = 0 \xrightarrow{\text{دیس}} x^2 - 10x + 21 = 0 \rightarrow (x - 3)(x - 7) = 0$ $\begin{cases} x=3 \xrightarrow{\div 3} \textcircled{1} \\ x=7 \xrightarrow{\div 3} \textcircled{\frac{7}{3}} \end{cases}$ جواب	۷
الف) $2x^2 - 5x + 3 = 0 \xrightarrow{\text{دیس}} x^2 - 5x + 3 = 0 \rightarrow (x - 3)(x - 2) = 0 \rightarrow \begin{cases} x=3 \xrightarrow{\div 2} \textcircled{\frac{3}{2}} \\ x=2 \xrightarrow{\div 2} \textcircled{1} \end{cases}$ جواب ب) $2x^2 + 5x + 3 = 0 \xrightarrow{\text{دیس}} x^2 + 5x + 3 = 0 \rightarrow (x + 2)(x + 3) = 0 \rightarrow \begin{cases} x=-2 \xrightarrow{\div 2} \textcircled{1} \\ x=-3 \xrightarrow{\div 2} \textcircled{\frac{-3}{2}} \end{cases}$ جواب ج) $2x^2 - 5x + 1 = 0 \xrightarrow{\text{دیس}} b^2 - 4ac = \Delta \rightarrow 25 - 4(2 \times 1) \rightarrow 25 - 8 = 17$ $x = \frac{-b \pm \sqrt{\Delta}}{2a} \rightarrow x = \frac{5 \pm \sqrt{17}}{2}$ د) $4x^2 + 7x + 9 = 0 \xrightarrow{\text{دیس}} b^2 - 4ac = \Delta \rightarrow 49 - 4(36) \rightarrow 49 - 144 = -95$ منفی $\frac{1}{2}$ جواب	۸
$x^2 - 3x - 2 = 0 \rightarrow \Delta = b^2 - 4ac \rightarrow 9 - 4(1 \times -2) \rightarrow 9 + 8 = 17 \rightarrow \begin{cases} \frac{-b + \sqrt{\Delta}}{2a} \rightarrow \frac{3 + \sqrt{17}}{2} \\ \frac{-b - \sqrt{\Delta}}{2a} \rightarrow \frac{3 - \sqrt{17}}{2} \end{cases}$ س) $\frac{3 + \sqrt{17}}{2} + \frac{3 - \sqrt{17}}{2} = \frac{6}{2} = 3 = (S)$ پ) $\left(\frac{3 + \sqrt{17}}{2}\right) \times \left(\frac{3 - \sqrt{17}}{2}\right) \rightarrow \frac{9 - 17}{2} \rightarrow \frac{-8}{2} = -4 = (P)$ الف) $S^2 - 2P \rightarrow (3)^2 - 2(-4) \rightarrow 9 + 8 = 17$ جواب ب) $S^3 - 3SP \rightarrow (3)^3 - 3(3 \times -4) \rightarrow 27 + 36 = 63$ جواب	۹
الف) $\left(\frac{5}{6}\right) + \left(\frac{9}{2}\right) \rightarrow \left(\frac{5}{6}\right) = \left(\frac{5}{6}\right) \rightarrow \frac{5 \times 4}{6 \times 1} = \left(\frac{20}{6}\right) \rightarrow \frac{9 \times 4}{1 \times 1} = \left(\frac{36}{1}\right) \rightarrow 20 + 36 = 56$ جواب ب) $\left(\frac{3}{4}\right) - \left(\frac{1}{2}\right) \rightarrow \frac{3 \times 2}{4 \times 2} = \left(\frac{6}{8}\right) \rightarrow \left(\frac{1}{2}\right) = \left(\frac{4}{8}\right) \rightarrow \frac{6 \times 1}{8 \times 1} = \left(\frac{6}{8}\right) \Rightarrow 6 - 4 = 2$ جواب	۱۰