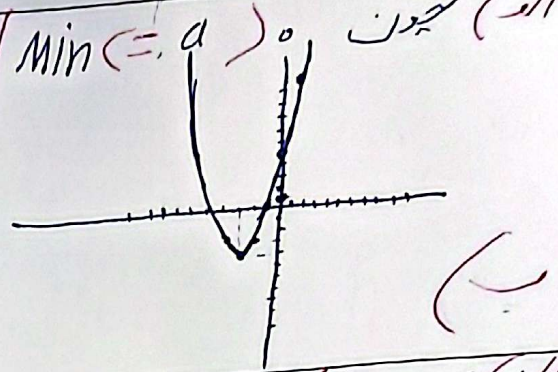
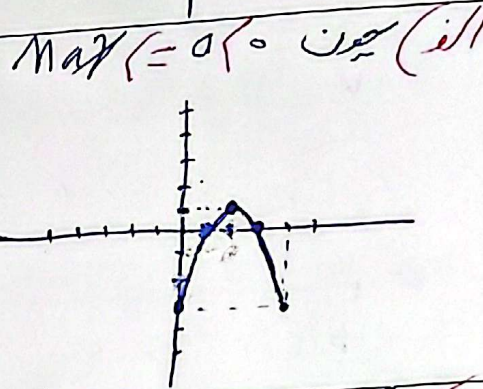


الف) چون $\Delta < 0$ $\Rightarrow \frac{-b}{2a} = \frac{-3}{2} = -1.5$
 $\min \left| \frac{-b}{2a} \right| = \frac{-3}{2} = -1.5$
 $\min \left| \frac{-3}{2} \right| = -1.5$



الف) چون $\Delta > 0$ $\Rightarrow \frac{-b}{2a} = \frac{-4}{2} = -2$
 $\max \left| \frac{-b}{2a} \right| = \frac{-4}{2} = -2$
 $\max \left| \frac{-4}{2} \right| = -2$



الف) چون $\Delta > 0$ $\Rightarrow \frac{-b}{2a} = \frac{-4}{2} = -2$
 $\max \left| \frac{-b}{2a} \right| = \frac{-4}{2} = -2$
 $\max \left| \frac{-4}{2} \right| = -2$

الف) $\Delta < 0 \Rightarrow 9 - 1a < 0 \Rightarrow a < 9$
 ب) $\Delta = 0 \Rightarrow 9 - 1a = 0 \Rightarrow a = 9$
 ج) $\Delta > 0 \Rightarrow 9 - 1a > 0 \Rightarrow a > 9$
 د) $\Delta < 0 \Rightarrow 9 - 1a < 0 \Rightarrow a < 9$
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$$x^1 - 11x + 18 = 0 \Rightarrow x^1 - 11x + 18 = 0 \quad (a)$$

$$\Rightarrow \begin{cases} x^1 = 1 \\ x^2 = 1 \end{cases}$$

$$x^1 + 12x - 11 = 0 \Rightarrow (x+1)(x-1) = 0 \quad (b)$$

$$\Rightarrow \begin{cases} x^1 = -1 \\ x^2 = 1 \end{cases}$$

$$ax^1 - 11x + 18 = 0 \Rightarrow x^1 - 11x + 18 = 0 \quad (c)$$

$$\Rightarrow \begin{cases} x^1 = \frac{a}{a-1} \\ x^2 = \frac{a}{a-1} \end{cases}$$

$$x^1 - 11x + 18 = 0 \Rightarrow x^1 - 11x + 18 = 0 \quad (d)$$

$$\Rightarrow \begin{cases} x^1 = \frac{a}{a-1} \\ x^2 = \frac{a}{a-1} \end{cases} \quad (e)$$

$$\Rightarrow \begin{cases} x^1 = -1 \\ x^2 = \frac{a}{a-1} \end{cases} \quad (f)$$

$$\Delta = b^2 - 4ac = 121 - 4 \cdot 18 = -7 \Rightarrow x^1 = \frac{11 \pm \sqrt{-7}}{2} \Rightarrow x^1 = \frac{11 \pm i\sqrt{7}}{2} \quad (g)$$

$$\Delta = b^2 - 4ac = 121 - 4 \cdot 18 = -7 \Rightarrow x^1 = \frac{11 \pm \sqrt{-7}}{2} \Rightarrow x^1 = \frac{11 \pm i\sqrt{7}}{2} \quad (h)$$

$$S = \frac{-b}{a} = \frac{-1}{1} = -1 \quad P = \frac{c}{a} = \frac{18}{1} = 18$$

$$x^1 = -1 \quad x^2 = 18 \quad (i)$$

$$x^1 - 11x + 18 = 0 \Rightarrow x^1 - 11x + 18 = 0 \quad (j)$$

$$\begin{pmatrix} n \\ k \end{pmatrix} = \frac{n!}{k!(n-k)!} = \frac{n!}{k!} \quad (k)$$

$$\Rightarrow 11 + 18 = 29$$

$$\frac{q!}{1!(1-1)!} = 1! \quad \left| \quad \frac{1!}{1!(1-1)!} = 1! \right. \Rightarrow 1! - 1! = 0 \quad (l)$$