

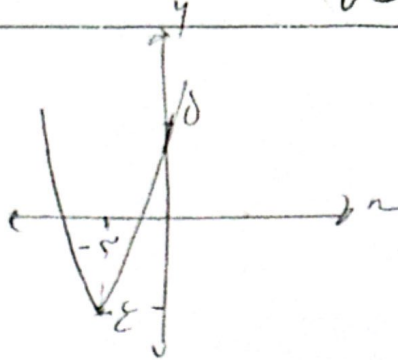
۱۷۱۲۵

$$y = x^2 + 4x + 0$$

$$\min \left| \frac{-b}{2a} = \frac{-4}{2} = -2 \right.$$

$$\frac{-D}{4a} = \frac{-16}{4} = -4$$

$$-D = -(16 - 4 \times 0 \times 1)$$



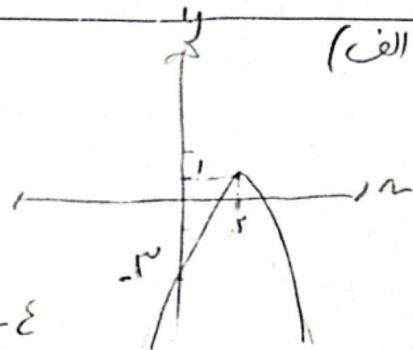
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$$y = -x^2 + 4x - 3$$

$$\max \left| \frac{b}{2a} = \frac{-4}{-2} = 2 \right.$$

$$\frac{-D}{4a} = \frac{-4}{-4} = 1$$

$$-D = -(16 - 4 \times 1 \times 3) = -4$$



(الف)

$$y = -x^2 + 4x - 3$$

$$\frac{-b \pm \sqrt{D}}{2a}$$

$$D = (4)^2 - 4 \times (-1) \times (-3) = 4$$

$$\frac{-4 \pm 2}{-2} = \frac{-2}{-2} = 1 \quad \text{و} \quad \frac{-6}{-2} = 3$$

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~~از (الف) و (ب) استفاده نکنیم~~

$$D = 4x^2 - 8x + 3$$

$$9 \times 14 = 126$$

$$a = -2$$

۹-۸۸۴۰

$$D = 9 - 8x + 4x^2$$

$$9 - 8x + 4x^2 = -18$$

$$4x^2 - 8x + 27 = 0$$

$$a = 10$$

۹-۸۸۴۰

$$D = 9 - (4x^2 + 4x) = 0$$

$$4x^2 + 4x - 9 = 0$$

$$a = \frac{4}{\Delta}$$

۹-۸۸۴۰

$$D = 9 - 8x + 4x^2$$

$$4x^2 - 8x + 13 = 0$$

$$D = 9 - 8x + 4x^2 = 1$$

$$4x^2 - 8x + 12 = 0$$

$$a = 1$$

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$$x^2 - x - 1 = 0$$

$$x^2 - x + \frac{1}{4} = \frac{5}{4}$$

$$x - \frac{1}{2} = \pm \sqrt{\frac{5}{4}}$$

$$x = \frac{1}{2} \pm \sqrt{\frac{5}{4}}$$

$$x^2 - 2x - 1 = 0$$

$$x^2 - 2x + 1 = \pm \sqrt{(x-1)^2} = \pm 2$$

$$(x-1)^2 = 2$$

$$x-1 = \pm \sqrt{2}$$

$$x = 1 \pm \sqrt{2}$$

۳

$$x^2 + 3x - 11 = 0$$

$$D = 9 - 4 \times (-11) \times 1 = 9 + 44 = 53$$

$$\frac{-3 \pm \sqrt{53}}{2}$$

$$\frac{-3 + \sqrt{53}}{2} \quad \text{و} \quad \frac{-3 - \sqrt{53}}{2}$$

$$x^2 - 11x + 11 = 0$$

$$\frac{-b \pm \sqrt{D}}{2a}$$

$$D = 121 - 4 \times 11 \times 1 = 99$$

$$\frac{11 \pm \sqrt{99}}{2}$$

$$\frac{11 + \sqrt{99}}{2} \quad \text{و} \quad \frac{11 - \sqrt{99}}{2}$$

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$u^r + \Gamma u - \Gamma \Lambda = 0$ $(u + \Gamma \quad u - \Gamma) = 0$ $u = \begin{pmatrix} -\Gamma \\ +\Gamma \end{pmatrix}$	$(- \quad u^r - \Gamma u + \Gamma \Lambda = 0$ $(u - \Gamma \quad u - \Gamma) = 0$ $u = \begin{pmatrix} +\Gamma \\ +\Gamma \end{pmatrix}$	1
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