

دینا ادھی دھم دھتہ B تکیف ۲۴

1/1/20

الف) $y = 2x^2 - 4x + 1$

$a > 0$
Min

ext $\left| \begin{array}{c} \frac{-b}{2a} \\ \frac{-\Delta}{4a} \end{array} \right. \rightarrow \left| \begin{array}{c} 1 \\ -1 \end{array} \right.$

ب) $y = -2x^2 + 4x - 5$

$a < 0$
Max

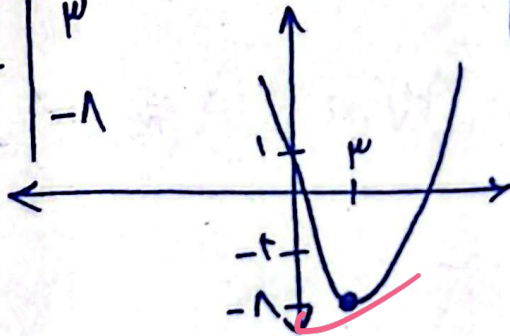
ext $\left| \begin{array}{c} \frac{3}{2} \\ -\frac{11}{2} \end{array} \right.$

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الف) $y = x^2 - 4x + 1$

Min

ext $\left| \begin{array}{c} 2 \\ -4 \end{array} \right.$

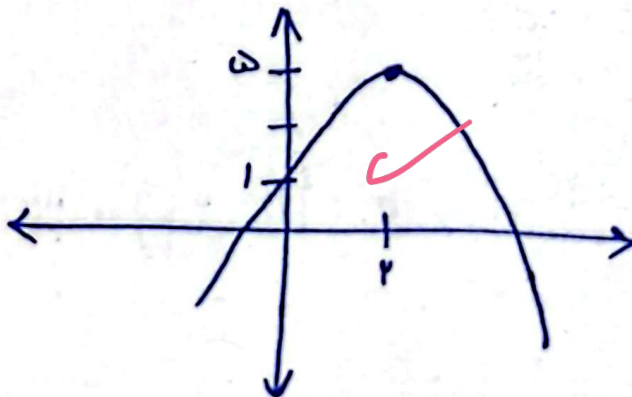


$\begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ -4 \end{bmatrix}$

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ب) $y = -x^2 + 4x + 1$

ext $\left| \begin{array}{c} 2 \\ 0 \end{array} \right.$



$\begin{bmatrix} 0 \\ 1 \end{bmatrix} \begin{bmatrix} 4 \\ 5 \end{bmatrix}$

$$r a^r + k x^r - q x - r = 0$$

$$(1-\beta)(\beta) = r \rightarrow (\beta-r)(\beta+1) = 0$$

$$\omega \beta = -r$$

$$\omega = 1 - \beta$$

$$\alpha + \beta = 1$$

$$-\frac{1}{2} r \frac{\dot{\omega}}{\omega}, -r + k + q \frac{\dot{\omega}}{\omega} = 0 \Rightarrow \underline{k = -r}$$

$$\beta = -1 \rightarrow \omega = r$$

$$\beta = r \rightarrow \omega = -1$$

$$x^r - r m x + m = 0$$

$$|\sqrt{\alpha} - \sqrt{\beta}| = 1 \quad (\sqrt{\alpha} - \sqrt{\beta})^r = 1$$

$$\alpha + \beta - r \sqrt{\alpha \beta} = 1 \rightarrow (r \sqrt{m} + 1)(\sqrt{m} - 1) = 0 \rightarrow m = 1$$

$$r x^r - x - 1 = 0 \rightarrow \alpha \beta = \frac{c}{a} = \frac{-1}{r}$$

$$r \sqrt{m} = -1$$

$$S = \frac{m \left(\frac{\sqrt{\Delta}}{|a|} \right)}{r} = \frac{r}{r}$$

(1, \sqrt{0})

$$m(\sqrt{(m-r)}^r) = r \rightarrow m(|m-r|) = r$$

$$m = r$$

$$\rightarrow m = -1$$

$$y = x^r - m x + 1 = x^r - r x + 1$$

$$\frac{-b}{ra} = \left(\frac{r}{r} \right)$$

$$y = ax^2 + px + q \rightarrow ay_0 \rightarrow y_{\min}$$

(9)

$$\Delta a^2 - 4a - 4a = 0$$

$$\leftarrow \frac{-\Delta}{2a} = \frac{V}{1}$$

$$\Delta = 4a^2 + 4a = 4a(a+1) \quad \textcircled{x} = V \pm \sqrt{4a(a+1)} \rightarrow 2a$$

$$x_1 = \frac{V + 2a}{1}$$

$$\rightarrow \boxed{1} \checkmark$$

(9)

$$x_2 = \frac{V - 2a}{1}$$

$$\rightarrow \left(\frac{-11}{14} \right)$$

$$\leftarrow x_2 < 0 \quad \times$$

$$x^2 - (a+1)x + a = 0$$

$$(a-1)^2 = f$$

-V

$$\frac{\sqrt{\Delta}}{2a} = 1$$

$$((a-1) - 1)((a-1) + 1) = 0$$

$$(a-2)(a) = 0$$

$$\begin{cases} a = -1 \quad \times \\ a = 2 \quad \checkmark \end{cases}$$

$$x^2 - (2a+1)x + b = 0$$

$$\sqrt{100 - 4b} = 2$$

$$b = 24$$

$$\rightarrow \boxed{b = 24} \checkmark$$

(9)

$$|P_2 - P_1| = |24 - 11| = 11$$

$$y = -ax^r + ax + r \rightarrow \left| \begin{array}{l} \frac{1}{r} \\ \frac{a+r}{r} \end{array} \right. \quad (1)$$

$$y = rbx^r - bx - 1 \rightarrow \left| \begin{array}{l} \frac{1}{r} \\ -(b+1) \end{array} \right.$$

$$\frac{rb}{r} - \frac{b}{r} - 1 = \frac{a+r}{r} \rightarrow a+r = -r \Rightarrow a = -1r$$

$$\frac{-a}{1r} + \frac{a}{r} + r = \frac{-(b+1)}{1} \rightarrow \frac{-a+ra+rr}{1r}$$

$$b+r = r \rightarrow b = -r \quad b-a = r \quad (2)$$

$$y = r\alpha x^r + rx + \beta \rightarrow r\alpha x^r + rx + \beta = 0 \quad (3)$$

$$r\alpha r^r + r\beta + \beta = 0$$

$$\alpha\beta(\alpha\beta + 1) = 0$$

1, r\alpha

$$\beta = 0$$

$$\frac{-r}{r\alpha} \rightarrow r\alpha x^r = -rx$$

$$\alpha\beta + 1 = 0 \rightarrow \beta = -\alpha \quad \checkmark$$

$$a+b = S \quad ab = P \quad (1.)$$

$$S = (a^2 + b^2 - 12) = S^2 - 2P - 12$$

$$P = a+b - 1 = S - 1 \rightarrow P = S - 1$$

$$S^2 - 2(S - 1) - 12 = S$$

$$S^2 = +3S + 10 \Rightarrow S^2 - 3S - 10 = 0$$

$$(S - 5)(S + 2) = 0$$

$$S = 5$$

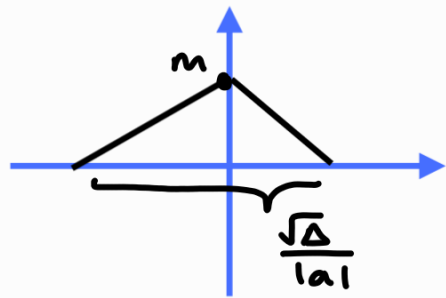
$$S = -2 \times$$

1, 10

$$a+b = \underline{5 \text{ و } -2}$$

همه دو عدد بگیرند که اند -2 باشد!

$$S = \frac{1}{r} \times m \times \frac{\sqrt{m^2 + r^2 - rm}}{r} = \left| \frac{r}{r} \right|$$



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$$m|m-r| = |r| \rightarrow \begin{cases} m|m-r| = r & 1 \\ m|m-r| = -r & 2 \end{cases}$$

1 $m \geq r \rightarrow m^2 - rm - r^2 = 0 \rightarrow m = r$ if $m < r \rightarrow \Delta < 0$ غَدَر

2 $m \leq r \rightarrow -m^2 + rm + r^2 = 0 \rightarrow m = -1$ if $m > r \rightarrow \Delta < 0$ غَدَر

$$m = r \rightarrow y = \frac{1}{r} + \frac{r}{r}x + r \rightarrow xS = -\frac{r}{r}$$

$$m = -1 \rightarrow y = \frac{1}{r} - x + r \rightarrow xS = -\frac{1}{r}$$

$$\frac{c}{a} = \frac{\beta}{r\alpha} = \alpha\beta \rightarrow \alpha^2 = \frac{1}{r\alpha} \rightarrow \alpha = \pm \frac{1}{\alpha}$$

$$-\frac{b}{a} = \frac{-r}{r\alpha} = \alpha + \beta \rightarrow \alpha = \frac{1}{\alpha} \rightarrow \beta = -1$$

$$\hookrightarrow \alpha = -\frac{1}{\alpha} \rightarrow \beta = 1 \checkmark (\beta > \alpha)$$

$$y = -\alpha x^2 + \epsilon x + 1 \rightarrow \begin{cases} xS = \frac{r}{r} \text{ مثبت} \\ yS = \frac{-\Delta}{\epsilon a} = \frac{-(14+20)}{-r} = \frac{4}{\alpha} \text{ مثبت} \end{cases}$$

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دراس منى از نيمه اول است