

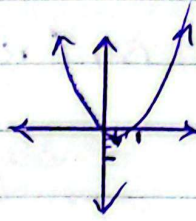
تکلیف: 25

معم، صفر A

فاطمه زهرا عالی زاده

الف) $y = 2a^2 - 2a$

$$\text{ent} \left| \begin{array}{l} \frac{-b}{2a} = \frac{2}{4} = \frac{1}{2} \\ \frac{1}{2} - \frac{1}{2} = -\frac{1}{2} \end{array} \right.$$

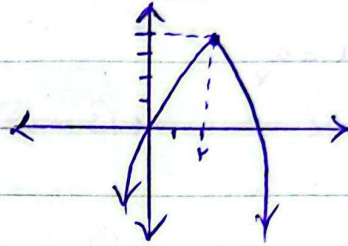


(1)

K_{min}

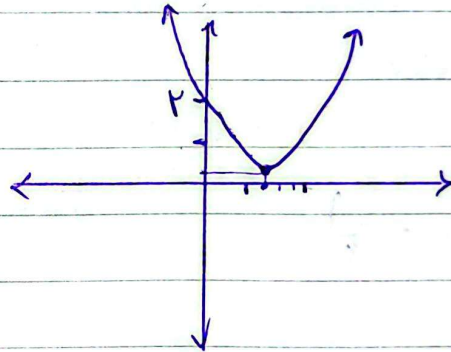
ب) $y = -a^2 + 2a$

$$\text{ent} \left| \begin{array}{l} \frac{-b}{2a} = \frac{-2}{-2} = 1 \\ -1 + 1 = 0 \end{array} \right.$$

K_{max}

الف) $y = 2a^2 - 2a + 1$

$$\text{ent} \left| \begin{array}{l} \frac{-b}{2a} = \frac{+2}{4} \\ 2 \times \frac{2 \times 2}{4} - 2 \left(\frac{2}{2} \right) + 1 = \frac{9}{4} \end{array} \right.$$

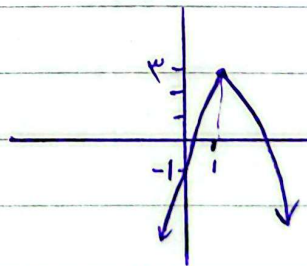


(2)

K_{min} و K_{max}

ب) $y = -a^2 + 2a - 1$

$$\text{ent} \left| \begin{array}{l} \frac{-b}{2a} = \frac{-2}{-2} = 1 \\ -1 + 1 - 1 = -1 \end{array} \right.$$

K_{min} و K_{max}

$$a^2 - a - 2 = 0 \rightarrow \alpha\beta = -2 \quad / \quad \alpha + \beta = \frac{-b}{a} = 1 \quad / \quad \alpha - \beta = \frac{\sqrt{\Delta}}{|a|} = \sqrt{13} \quad (3)$$

$$\text{الف) } \frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\sqrt{13}} = \frac{\sqrt{13}}{13}$$

$$\text{ب) } \alpha^2 + \beta^2 = (\alpha + \beta)^2 - 2\alpha\beta = 1^2 - 2(-2) = 5$$

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$$ع) \alpha^r + \beta^r = (\alpha + \beta) (\alpha^r - \alpha\beta + \beta^r) = (1) (V + r) = 10$$

$$ح) \alpha^r - \beta^r = (\alpha - \beta) (\alpha^r + \alpha\beta + \beta^r) = (\sqrt{13}) (V - r) = r\sqrt{13}$$

$$x^r - ax + a \xrightarrow{\Delta < 0} \text{حالی} \leftarrow n=2 \text{ در } \text{نیمه باز} (r)$$

$$\textcircled{1} \Delta < 0 \rightarrow a^r - ra < 0 \rightarrow \frac{0}{+1} - \frac{r}{+} \quad \text{ح. ر} = (0, r]$$

$$\textcircled{2} (n-r)^r \rightarrow a = r$$

$$r x^r - 12x - a = 0 \quad *$$

$$\alpha + \beta = \frac{12}{r} = 2 \quad \alpha\beta = \frac{-a}{r}$$

$$\hookrightarrow \beta = 2 - \alpha$$

$$r\alpha^r + \beta^r - r\alpha = V \xrightarrow{\beta = 2 - \alpha} r\alpha^r + (2 - \alpha)^r - r\alpha = V$$

$$r\alpha^r + 14 + \alpha^r - 12\alpha - r\alpha = V$$

$$r\alpha^r - 12\alpha + 9 = 0$$

$$\alpha^r - 12\alpha + 9 = 0$$

$$(n-9)(n-3) = 0 \rightarrow \begin{cases} n = \frac{9}{r} = 3 = \beta \\ n = \frac{3}{r} = 1 = \alpha \end{cases}$$

$$r\alpha^r - 12\alpha + 9 = 0$$

$$* . b \Rightarrow \boxed{\alpha = -9}$$

ریشه بزرگتر باشد

$$\frac{a}{\beta} = \frac{-9}{r} = -r$$

(9) هر دو بیگانه \neq a ، a سبب این نقطه می شود

$$y_1, a = \frac{v - 2a + 2a + 2}{2} = a$$

$$\begin{cases} b = a \\ b - v = 2 \end{cases} \rightarrow \begin{cases} y = k(a - h)^2 + y_s \\ y = k(a - a)^2 + 2 \end{cases}$$

$$y = -\frac{1}{k}$$

$$y = -\frac{1}{k}(-a)^2 + 2$$

بقیه $\rightarrow a - 2 = k(v - 2a - a)^2 + 2$

$$a - 2 = k(2 - 2a)^2 + 2$$

$$a - a = 4k(a - 1)^2$$

نقطه $x=0$

$$y = -\frac{1}{k}(a - a)^2 + 2$$

بقیه $\rightarrow a - 2 = k(2a + 2 - a)^2 + 2$

$$a - a = 4k(a - 1)^2 \xrightarrow{* \cdot b} 2 - a = 4k(2)^2$$

$$-2 = 16k \rightarrow k = -\frac{1}{8}$$

if $a = 2^*$ $\rightarrow \begin{matrix} B \\ A \end{matrix} \begin{matrix} | \\ | \\ | \end{matrix}$

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H A S H T A G

$$d = \sqrt{(a - 0)^2 + (-\frac{1}{k} - 0)^2} = \sqrt{\frac{1}{4k} + \frac{1}{k^2}} = \frac{1}{k}$$

$$\begin{matrix} 0 \\ 0 \\ -\frac{1}{k} \end{matrix}$$

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$$r^2 - (m+1)r + 1 = 0 \quad (10)$$

$$\alpha + \beta = \frac{m+1}{r}, \quad \alpha \beta = \frac{1}{r}$$

$$\sqrt{\frac{1}{\alpha}} + \sqrt{\frac{1}{\beta}} = r \Rightarrow \frac{\sqrt{\beta} + \sqrt{\alpha}}{\sqrt{\alpha\beta}} = r \rightarrow (\sqrt{\beta} + \sqrt{\alpha})^2 = \left(\frac{r}{r}\right)^2$$

$$\rightarrow \frac{\beta + \alpha + 2\sqrt{\alpha\beta}}{r} = \frac{r^2}{r}$$

$$\frac{m+1}{r} + \frac{1}{r} = \frac{r^2}{r} \rightarrow \frac{m+1}{r} = \frac{r^2}{r} \Rightarrow |m = -1|$$

$$m\alpha^r + r\alpha + r = 0 \Rightarrow -\alpha^r + r\alpha + r = 0 \Rightarrow \alpha^r = r\alpha + r$$