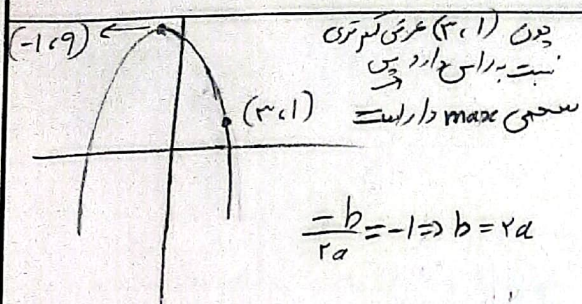




$$y = ax^r + bx + c \quad \text{ext} \left| \begin{array}{l} \frac{-b}{ra} = -1 \\ \frac{-A}{ra} = 9 \end{array} \right.$$

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

$$y = -\frac{1}{r}x^r - x + \frac{1}{r}$$

$$yx^r + mx + m + 4 = 0$$

$$\alpha\beta > 0 \Rightarrow \frac{c}{a} > 0 \Rightarrow \frac{m+4}{5} > 0$$

$$\frac{-9}{-1+} \Rightarrow m > -9$$

$$a + \beta > 0 \Rightarrow \frac{-b}{a} > 0 \Rightarrow \frac{-m}{r} > 0$$

$$\frac{0}{+|-} \Rightarrow m < 0$$

$$\Rightarrow -4 < m < -1$$

$$\Delta \geq 0 \Rightarrow m^2 - 4m - 4 > 0$$

$$\Rightarrow (m-1r)(m+1r) > 0$$

$$\frac{-f \quad 1r}{+ \quad | \quad - \quad | \quad +} \Rightarrow \begin{matrix} m < -f \\ m > 1r \end{matrix}$$

$$r x^r + (r m - 1) x + r - m = 0$$

$$\alpha + \beta = \frac{1}{\alpha\beta} \Rightarrow \frac{-b}{a} = \frac{a}{c} \Rightarrow a^2 = -bc$$

$$q = Ym^r - \omega m + r \Rightarrow Ym^r - \omega m - r = 0 \rightarrow m^r - \omega m - 1r = 0 \rightarrow (m-v)(m+r) \left\{ m = \frac{v}{r} \right.$$

$$x = x^r - 1^r \Rightarrow x^r - x^{-r} = 0$$

$$x = x_1^r - x_2^r \Rightarrow x_1^r - x_2^r = 0 \quad p = x_1 x_2 = -x^r$$

$$x_1^r + \frac{1}{x_1} + x_2^r + \frac{1}{x_2} = x_1^r + x_2^r + \frac{x_1 + x_2}{x_1 x_2} = s^r - r p s + \frac{s}{p} = 1 + r - \frac{1}{x} = \frac{a!}{x} = \frac{-b}{a}$$

$$(x_r^r + \frac{1}{x_r}) (x_1^r + \frac{1}{x_r}) = (x_r x_r)^r + x_r^r x_1^r + \frac{1}{x_r x_r} = (-r)^r + 1 + 1 + \frac{1}{r} = -\frac{r-1}{r} = \frac{c}{a}$$

$$V = 5x^2 - 21x - 22$$

$$\left(\sqrt{x^r} + \frac{1}{\sqrt{x^r}} + 1\right)(\sqrt{x^r} - 1) = \sqrt{x^r} - \sqrt{x^r} + 1 - \frac{1}{\sqrt{x^r}} + \sqrt{x^r} - 1 = \sqrt{x^r} - \frac{1}{\sqrt{x^r}} = \sqrt[3]{x^r}$$

$$\sqrt[r]{x^r} - r\sqrt[r]{x} - \frac{1}{\sqrt[r]{x^r}} = 0 \quad \xrightarrow{\times \sqrt[r]{x^r}} x^r - rx + 1 = 0$$

$$x_1 + x_2 = \frac{-b}{a} = 4$$

$$r x^r - a x + r = 0 \rightarrow a = r\beta$$

$$\alpha + \beta = r\beta = \frac{\alpha}{r}$$

$$\alpha\beta = r\beta^r = \frac{r}{r} \Rightarrow \beta^r = \frac{r}{r} \Rightarrow \beta = \pm \frac{r}{r} \Rightarrow r\beta = \pm \frac{1}{r}$$

$$\left. \begin{array}{l} \alpha = -1 \\ \alpha = 1 \end{array} \right\} 1 - (-1) = 2$$

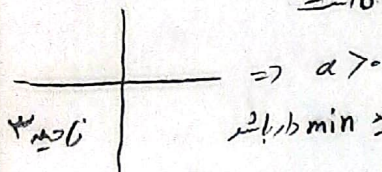
6

$$y = a x^r + (r + r a) x + \dots$$

عری اربا 10

$$\frac{-b}{r a} > 0 \Rightarrow \frac{-(r + r a)}{r a} > 0$$

نی 2
300 با 0
min با 2



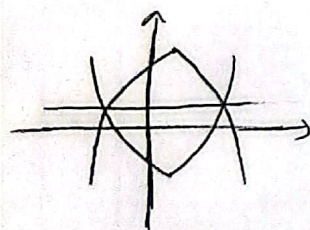
$\Rightarrow a > 0$
با min

افزای صیج مقدار سی از نا صی 3 غیر منی کنی

$$\Delta = 0 \Rightarrow (r + r a)^2 = 0 \Rightarrow a = -\frac{r}{r} \rightarrow *$$

7

$$\left. \begin{array}{l} y = x^r + a x - r \\ y = -x^r - r x + b \end{array} \right\} \frac{-b}{r a} = -1$$



$$\frac{b}{-1} = -\left(\frac{-r}{1} + r\right) \Rightarrow \frac{b}{-1} = 0 \Rightarrow b = 0$$

$$1 = -x^r - r x \Rightarrow -x^r - r x - 1 = 0 \Rightarrow -(x+1)^r \Rightarrow x = -1$$

$$1 = x^r + a x - r \Rightarrow 1 = 1 - a - r \Rightarrow a = -r$$

$$a b = 0 \cdot x - r = 0$$

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$$r x^r - a x + b = 0 \rightarrow \left. \begin{array}{l} \alpha + \beta_1 = \frac{a}{r} \\ \alpha \beta_1 = \left(\frac{a}{r} + \frac{1}{r}\right) \left(\frac{b}{r} + \frac{1}{r}\right) = \alpha \beta_1 + \frac{1}{r} a \left(\frac{a}{r} + \frac{1}{r}\right) + \frac{1}{r} b \end{array} \right\} -\frac{1}{r} + 1 = \frac{a}{r} \Rightarrow a = 1$$

$$r a x^r + a x - r = 0 \rightarrow \left. \begin{array}{l} \alpha + \beta_1 = \frac{-a}{r a} = -\frac{1}{r} \\ \alpha \beta_1 = \frac{-r}{r a} \Rightarrow \frac{-r}{r} = -1 \end{array} \right\} -r + \frac{1}{r} + \frac{1}{r} = -\frac{r}{r} = \frac{b}{r} \Rightarrow b = -r$$

$$\left[\frac{a b}{r} \right] = \left[\frac{-r}{r} \right] = \left[-1 \right] = -1$$

9

$$\left. \begin{array}{l} x^r + 4 x + m = 0 \\ x^r + r x - r m = 0 \end{array} \right\} \left. \begin{array}{l} r x + r m = 0 \\ \Rightarrow x = -m \end{array} \right\}$$

$$r - (-1) = r$$

$$m^r - 4 m + m = 0 \rightarrow \left. \begin{array}{l} m = 0 \\ m = 0 \end{array} \right\} *$$

$$\left. \begin{array}{l} x^r + 4 x + m = 0 \\ x^r + r x - r m = 0 \end{array} \right\} \left. \begin{array}{l} x = -1 \\ x = -m \end{array} \right\}$$

2
شتر

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