

Subject:

Year:

Month:

Day:

$$\frac{-b}{2a} = r \rightarrow \frac{-1}{2a-1} = r \Rightarrow -1 = fa - f \Rightarrow a = \frac{r}{f} \quad (1)$$

$$\rightarrow \frac{-1}{f} x^r + m + r = 0 \rightarrow x^r - fm - 1r = 0 \rightarrow (x-1)(m+r) = 0 \xrightarrow{r>0} x=1$$

$$\text{نکته: } m > 0, \Delta > 0 \rightarrow 4\omega - fm^2 > 0 \Rightarrow fm^2 < 4\omega \rightarrow \quad (2)$$

$$m < \frac{\omega}{r}, \quad m > -\frac{\omega}{r} \rightarrow m \in \left(0, \frac{\omega}{r}\right)$$

$$x^r - 5m + p = 0 \rightarrow S = \frac{r - \sqrt{\omega} + r + \sqrt{\omega}}{2} = r \quad (3)$$

$$p = \frac{(r + \sqrt{\omega})(r - \sqrt{\omega})}{4} \leq \frac{9 - \omega}{4} \leq \frac{r}{4} \xrightarrow{r} x^r - rx + \frac{r}{4} = 0 \Rightarrow 4mx^r - 11m + f = 0$$

$$S \leq f \Rightarrow \alpha + \beta, f \Rightarrow \beta = f - \alpha \quad (4)$$

$$\rightarrow rx^r + (f - \alpha)x \leq 1r \rightarrow rx^r - 11\alpha + f \leq 0 \rightarrow \alpha^r - 2\alpha + 1 \leq 0$$

$$\rightarrow (\alpha - 1)^2 \leq 0 \rightarrow \alpha \leq 1, \beta \leq f \rightarrow p = \frac{m+r}{4} = \frac{r}{4} \Rightarrow m = \frac{r}{4}$$

$$\rightarrow \frac{r}{4} = \frac{m+r}{4} \Rightarrow m = 0$$

$$y = a(x+r)^r + q \xrightarrow{(0, \omega)} \omega = fa + q \Rightarrow fa = -f \rightarrow a \leq -1 \quad (5)$$

$$\rightarrow y = -(x^r + f - fm) + q \leq -x^r + fm + \omega \leq 0 \rightarrow x = \omega$$

$$\frac{-1}{\omega} \rightarrow (1 - 1, \omega) \quad x \leq -1$$

$$\frac{1}{a} + \frac{1}{\beta} \leq -\frac{1}{r} + \frac{r}{r} \leq \frac{-r + q}{4} = \frac{V}{4} \quad (6)$$

$$a\beta \leq \frac{q\beta}{a} \Rightarrow a^r \leq q \Rightarrow a = \pm r$$

$$a + \beta \leq \frac{V}{a} \xrightarrow{a \leq r} \beta = \frac{V}{r} - r \rightarrow a \leq -r, \beta \leq \frac{r}{r}$$

$$\beta^r + m\beta - r m = 0 \Rightarrow m\beta = r m - \beta^r, \alpha^r - m\beta = 1 \Rightarrow$$

$$\frac{\alpha^r + \beta^r}{s^r - r^p} - r m - 1 = 0 \Rightarrow S^r - r^p = r m + 1 \rightarrow$$

$$m^r + r m = r m + 1 \Rightarrow m^r + r m - 1 = 0 \Rightarrow m = -r, m = r$$

$$m = r \rightarrow \Delta = r_0 \rightarrow \checkmark, m = -r \rightarrow \Delta = -r \rightarrow X \rightarrow S = -r$$

$$\frac{\Delta}{r^p} = 1 \rightarrow \frac{r m^r + r m - 1}{r m} = 1 \Rightarrow r m^r - r m - 1 = 0$$

$$\rightarrow r m^r - r m - 1 = 0 \Rightarrow m = r \rightarrow y = f a^r + t a + 4 \rightarrow \Delta < 0 \quad X$$

$$K > 0 \rightarrow K < r^p \quad \star \quad m = -r \rightarrow y = -r m^r + m + 4 \Rightarrow m = -1, m = r$$

$$y = a(m-r)^r + 4 \xrightarrow{(0, f)} t = f a + 4 \rightarrow a = -\frac{1}{r}$$

$$y = -\frac{1}{r} (m^r + t - f m) + 4 = -\frac{m^r}{r} + r m + t = 0$$

$$\frac{1}{a} + \frac{1}{B} = \frac{a+B}{aB} = \frac{r}{-1} = -\frac{1}{r}$$

$$r - 1 a - 1 + r a^r + 4 a + r = 0 \rightarrow r a^r - r a - 1 = 0$$

$$a = 1, a = -1 \quad \frac{r}{p} \quad n^r - (r+r)n + (r+4+r) =$$

$$n^r - 1 n + r = 0 \rightarrow (n-r)(n-4) = 0 \rightarrow n = r$$

$$n^r - (-\frac{r}{p} + r)n + (\frac{r}{q} - r + r) = 0 \rightarrow n = 4$$

$$n^r - \frac{1}{p} n + \frac{r}{p} = 0 \rightarrow n = \frac{1}{p} \pm \frac{r}{p}$$

$$\rightarrow n = 4, n = \frac{r}{p}$$