

باقی (م) درجہ

تکلیف

رہنمائی کنندہ

$$\frac{-b}{2a} = r \rightarrow \frac{-1}{2a-1} = r \quad (a-1 = -1) \\ \text{یا } a = 0 \rightarrow a = \frac{1}{2}$$

(1)

$$-\frac{1}{2}a^2 + a + r = 0$$

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

$$m = 2$$

$$\sqrt{+1}$$

$$\rightarrow -2$$

$$\begin{array}{c|cc} a & m & nr \\ \hline f(a) & -1 & +2 \end{array}$$

مقدار m

$$b^2 - 4ac > 0$$

$$r^2 - 4m^2 > 0$$

$$-\frac{\omega}{r} < m < \frac{\omega}{r}$$

$$m^2 < \frac{r^2}{4}$$

$$\begin{array}{c} -\frac{\omega}{r} \quad \quad \quad \frac{\omega}{r} \\ \hline 0 \quad \quad \quad 0 \\ \hline -\frac{\omega}{r} < m < \frac{\omega}{r} \end{array}$$

(2)

$$a^2 - 5a + p = 0 \rightarrow a^2 - (m + \frac{1}{a}) \rightarrow 9a^2 - 11a + 1 = 0$$

(3)

$$S = \frac{1+\sqrt{5}}{2} + \frac{1-\sqrt{5}}{2} = \frac{4}{2} = 2$$

$$D = \frac{1+\sqrt{5}}{2} \times \frac{1-\sqrt{5}}{2} = \frac{1-5}{4} = \frac{-4}{4} = -1$$

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

(4)

$$r\alpha^2 + (r - \alpha)^2 = 12$$

$$r\alpha^2 + 12 + \alpha^2 - 2\alpha = 12$$

$$r\alpha^2 - 2\alpha + r = 0$$

$$\alpha^2 - 2\alpha + 1 = 0 \rightarrow \alpha = 1$$

$$r - 1 + m + r = 0$$

$$m = r$$

$$y = a(n-r)^r + a$$

$$-(n-r)^r + a > 0$$

(5)

$$r_a + a = 0$$

$$(n-r)^r + a < 0$$

$$a = -1$$

$$n^r + r - 6n - 9 < 0$$

$$\rightarrow n^r - 6n - 9 < 0$$

$$\rightarrow (n-3)(n+1) < 0$$

$$\hookrightarrow (-1, 3)$$

$$\frac{-1 \pm \sqrt{1-1}}{2} = \frac{-1 \pm 0}{2} = -\frac{1}{2}$$

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

(4)

$$P = \alpha\beta = \frac{q\beta}{\alpha}$$

$$\alpha^r\beta = q\beta \rightarrow \alpha^r = q \rightarrow \alpha = \pm r$$

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

$$\alpha = -r \rightarrow -\frac{r}{r} = -r + \beta \rightarrow \beta = \frac{r}{r} \quad \alpha = -r$$

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

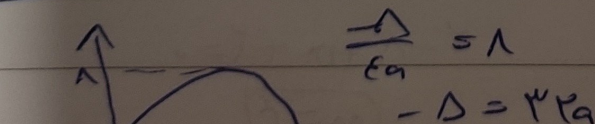
$$\beta^r + m\beta - r_m = 0 \rightarrow \beta^r - r_m = -m/\beta$$

$$m^r + r_m - 1 = 0$$

$$\alpha^r - m\beta = 1 \rightarrow \alpha^r + \beta^r - r_m = 1 \rightarrow m^r + (m - r_m - 1) = 0$$

$$\rightarrow m = -1 \rightarrow \alpha^r - r_m + 1 = 0 \rightarrow \Delta < 0 \rightarrow \text{محل ندارد}$$

$$\rightarrow m = +r \rightarrow \alpha^r + r_m - 1 = 0 \rightarrow S = \frac{r}{r} = -r$$



$$\frac{\Delta}{4a} = 1$$

$$-\Delta = 3r_a$$

(3)

$$\rightarrow -(14 - (m)(\frac{m}{r} + 1)) = 3r_m$$

$$-14 + r_m^r + r_m = 3r_m$$

$$r_m^r - r_m - 14 = 0 \rightarrow m^r - r_m - 14 = 0$$

$$(m-7)(m+2) = 0$$

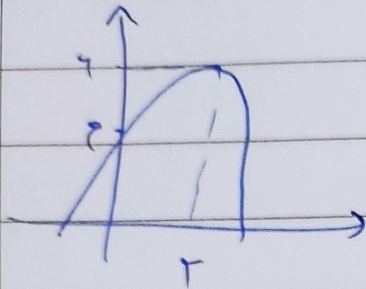
$$m = 7 \quad \rightarrow m = -2$$

تاریخ : / /

$$-2a^2 + 4a + 4 = 0$$

$$a^2 - 2a - 2 = 0 \rightarrow (a-4)(a+1) = 0 \quad k \in \mathbb{R}$$

$$a = 4 \quad \rightarrow a = -1$$



$$1 = a(a-r)^2 + y$$

$$4a + 4 = c$$

$$a = -\frac{1}{r}$$

$$-\frac{1}{r}(a^2 - 4a + c) + 4 = 0 \rightarrow -\frac{1}{r}a^2 + 4a - \frac{c}{r} + 4 = 0$$

$$\Rightarrow -\frac{1}{r}a^2 + 4a + c = 0 \Rightarrow -a^2 + 4ar + r = 0$$

$$\Rightarrow \frac{1}{\alpha} + \frac{1}{\beta} = \frac{2r\beta}{\alpha\beta} \Rightarrow \frac{c}{-1} = -\frac{1}{r}$$

$$4a + c = r + \beta$$

$$4a^2 + 4a + c = r\beta$$

$$4a^2 + 4a + c = 4a + c$$

$$4a^2 - 2a - 1 = 0$$

$$a = 1 \text{ و } -\frac{1}{4}$$

$$a = 1 \rightarrow a^2 - 4a + 1 = 0$$

$$(a-2)(a-4) = 0$$

$$a = 2, 4$$

$$a = -\frac{1}{4} \rightarrow a^2 - \frac{1}{4}a + \frac{c}{4} = 0$$

$$\rightarrow 4a^2 - a + c = 0 \rightarrow a = 2, \frac{1}{4}$$

$$a = 4, \frac{1}{2}$$