

$$\alpha \cdot \beta = 1$$

سوال ۱

$$\alpha + \beta = \Delta \Rightarrow \alpha = \Delta - \beta$$

$$\beta^2 - \Delta \beta + 1 = 0 \rightarrow \beta^2 = \Delta \beta - 1$$

$$\frac{f_{\alpha} + \beta^{\omega}}{\Delta \beta^r} = \frac{f}{\Delta} \frac{\alpha}{\beta^r} + \frac{1}{\Delta} \beta^{\omega} \rightarrow \frac{f}{\Delta} \times \frac{\Delta - \beta}{\Delta \beta - 1} + \frac{1}{\Delta} \beta \times \beta^{\omega} \rightarrow$$

$$\frac{f}{\Delta} \times \frac{\Delta - \beta}{\Delta \beta - 1} \times \frac{1}{\Delta} (\Delta \beta^{\omega} - 1) \rightarrow \frac{f - f\beta}{\Delta(\Delta \beta - 1)} + \frac{\beta^{\omega} - 1}{\Delta} \times \frac{\Delta \beta - 1}{\Delta \beta - 1} \Rightarrow$$

$$\frac{f - f\beta - 19}{\Delta(\Delta \beta - 1)} \rightarrow \frac{9\Delta(\Delta \beta - 1)}{\Delta(\Delta \beta - 1)} = 19$$

$$-f = 9a + 3b + c$$

$$-f = 2, 2\Delta a - 4\Delta b + c$$

$$\left. \begin{array}{l} 9, 2\Delta a - f, \Delta b = \\ b = 1\Delta a \end{array} \right\}$$

سوال ۲

$$\frac{-b}{a} = \frac{+1\Delta a}{a} = 1\Delta$$

$$\frac{\sqrt{\Delta}}{|a|} = \sqrt{fK^2 - r} = \frac{f}{r} K \rightarrow fK^2 - r = \frac{19}{9} K^2 \rightarrow \frac{f}{9} K^2 - r = \frac{19}{9} K^2$$

$$K^2 = 9 \quad \left[\frac{K^2}{r} \right] \rightarrow \left[\frac{9}{1} \right] = f$$

$$-1 = -\frac{b}{ra} \rightarrow -\frac{b}{a} = -r \cdot 8$$

سوال ۳

$$(y-1) = a(m - (-1))^2 \rightarrow y = am^2 + 2am + a + 1$$

$$\alpha^2 + \beta^2 = \Delta \rightarrow 8^2 - 2p = \Delta \rightarrow f - 2\left(\frac{a+1}{a}\right) = \Delta$$

$$\rightarrow f - \frac{2a+2}{a} = \Delta \quad \frac{-2a-2}{a} = 1 \quad a = -\frac{2}{1}$$

$$\Rightarrow a+1 = -\frac{2}{1} + 1 = -\frac{1}{1}$$

$$\omega_{\text{دوم}}: \frac{-a \pm \sqrt{4a + km}}{-r} \Rightarrow \left(\frac{-a - \sqrt{4a + km}}{-r} < \frac{9}{r} \right) \times r \quad \omega_{\text{دوم}}$$

$$\Rightarrow a + \sqrt{4a + km} < 9 \rightarrow \sqrt{4a + km} < 9 - a \rightarrow 4a + km < (9 - a)^2$$

$$m < -\frac{9}{r}$$

$$\Delta > \rightarrow 4a + km > 0 \quad m > -\frac{4a}{k} \quad -\frac{4a}{k} < m < -\frac{9}{r} \quad \left(\frac{1-a/4}{-4/r - k} \right)$$

لا يمكن

$$m > \cdot \quad \left| \frac{-b}{ra} \rightarrow \frac{12}{4m} \rightarrow \frac{9}{m} \rightsquigarrow r = \frac{34}{m} - \frac{12}{m} + \frac{dm}{m} - 1 \Rightarrow \frac{9}{m} \quad \omega_{\text{دوم}}$$

$$\Delta < \cdot \quad \left[\frac{-\sqrt{\Delta}}{ra} \quad \downarrow \quad \frac{9}{m} = r \right] \quad \frac{34}{m} - \frac{12}{m} + \frac{dm}{m} - 1 = \frac{9}{m}$$

$$r = \frac{dm^2 - 34}{m} \quad dm^2 - 34m - 34 = 0$$

$$r = \frac{3 \pm \sqrt{179}}{1} \rightarrow -\frac{3}{2}$$

$$\alpha \cdot \beta = a^r \rightarrow 2a - 1 = a^r \rightsquigarrow a^r - 2a + 1 = 0 \quad (a-1)^r = 0 \quad \omega_{\text{دوم}}$$

$$\alpha + \beta = -r(a+1) \quad \alpha \cdot \beta = 2a - 1 \quad a = 1$$

$$x^r = t$$

$$t^r - rt - 2 = 0 \quad \frac{r \pm \sqrt{49}}{2} = x^r = \frac{r \pm \sqrt{49}}{2} = m \pm \sqrt{\frac{r \pm \sqrt{49}}{2}}$$

$$r p^r \rightarrow r \times \left(\frac{r \pm \sqrt{49}}{2} \right)^r = 29 \pm \sqrt{49}$$

$$S = 0 \quad \leftarrow \text{سواءاً}$$

$$p = \frac{-r \pm \sqrt{49}}{2}$$

$$\text{دست} = \frac{-b}{2a} = \frac{f}{2K} = \frac{y}{K} \xrightarrow{\text{ساده}} \frac{-1}{K} - f = y = \frac{K}{K} \quad K=2 \quad \text{سوال 2}$$

$$y = m^2 - 6m - 4 \longrightarrow 2 \times 1 - 6 \times 1 - 4 = -11$$

$$-m^2 + mn + 1 \neq -m - n \quad \Delta < 0. \quad \text{سوال 1.}$$

$$m^2 - (1+m)n - 1 - m \neq 0 \quad (1+m)^2 (f(m) = 1-m)$$

$$1m^2 + 2m + 6m + 6m^2 < 0$$

$$\Delta m^2 + 4m + 1 < 0$$

$$m = \frac{-4 \pm \sqrt{16}}{2} \quad \begin{cases} -0.5 \\ -1 \end{cases}$$

$$-1 < m < -0.5 \quad \text{مربع عدد صحیح ندارد}$$