

$$n^2 - \alpha n + \gamma = 0 \quad s = \alpha \quad p = \gamma \Rightarrow \alpha \cdot \beta = \gamma \Rightarrow \alpha = \frac{\gamma}{\beta} \Rightarrow \alpha = \frac{1}{\beta} \quad -1$$

$$\frac{\frac{1}{\beta} + \beta^2}{\alpha \beta^2} \xrightarrow{\times \beta} \frac{1 + \beta^3}{\alpha \beta^3} = \frac{\alpha^3 \beta^3 + \beta^3}{\alpha \beta^3} = \frac{\alpha^3 + \beta^3}{\alpha} = \frac{s^3 - 3sp}{\alpha}$$

$$= \frac{12\alpha - 30}{\alpha} = 19 \quad \checkmark \quad (2)$$

$$n^2 + \gamma n + \alpha = 0 \Rightarrow \frac{n_1 + n_2}{2} = -\frac{\gamma}{2} \Rightarrow -\frac{1\alpha + 3}{2} = 0, 17\alpha \quad (2)$$

$$0, 17\alpha \times 2 = 1, \alpha \quad \checkmark$$

$$n^2 + \gamma n + \alpha = 0 \quad s = -\gamma \quad \frac{-\gamma + \frac{\gamma}{\gamma} \gamma}{2} = -\frac{1}{\gamma} \gamma \quad -3$$

$$\Delta = \frac{\gamma}{\gamma} \gamma \quad \frac{-\gamma - \frac{\gamma}{\gamma} \gamma}{2} = -\frac{\alpha}{\gamma} \gamma \quad (2)$$

$$p = \alpha \Rightarrow \frac{\alpha}{\gamma} \times \frac{1}{\gamma} \times \gamma^2 \Rightarrow \gamma^2 = 9 \Rightarrow \gamma = \pm 3 \quad \left[\frac{\gamma^2}{\gamma} \right] = \left[\frac{9}{\gamma} \right] = \gamma \quad \checkmark \quad -5$$

$$-2n^2 - \gamma n + 1$$

$$\frac{n_1 + n_2}{2} = -\frac{\gamma}{2} = -1 = n_s$$

$$\frac{-b}{2a} = -1 \Rightarrow b = 2a \quad a n^2 + 2a n + c \Rightarrow \frac{-2a^2 - 2ac}{2a} = \frac{-2a(a+c)}{2a}$$

$$= -1 \Rightarrow c = a + 1 \quad a n^2 + 2a n + a + 1 \quad \alpha^2 + \beta^2 = 0 = s^2 - p \Rightarrow \frac{\gamma^2 - 2a - \gamma}{a} = \alpha \quad (2)$$

$$\frac{2a + \gamma}{a} = -1 \Rightarrow 2a + \gamma = -a \Rightarrow 3a = -\gamma \Rightarrow a = -\frac{\gamma}{3}$$

$$\Rightarrow -\frac{\gamma}{3} n^2 - \frac{\gamma}{3} n + \frac{1}{3} \Rightarrow (n, y) = (0, \frac{1}{3}) \quad \checkmark$$

$$\frac{-\alpha + \sqrt{2\alpha + 4m}}{-\gamma} < \frac{9}{+4} \Rightarrow -\sqrt{2\alpha + 4m} < 12 \Rightarrow \sqrt{2\alpha + 4m} > -2 \quad -5$$

$$\Rightarrow 2\alpha + 4m > 0 \Rightarrow 2\alpha > -4m \Rightarrow \left(-\frac{2\alpha}{4} < m \right) \quad \text{ادامه مفید دور} \quad \checkmark$$

