

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

$$\frac{\frac{1}{\beta} + \beta^4}{\alpha \beta^2} \Rightarrow \frac{1 + \beta^5}{\alpha \beta^3} = \frac{\alpha^3 \beta^3 + \beta^5}{\alpha \beta^3} = \frac{\alpha^3 + \beta^3}{\alpha} = \frac{s^3 - 3sp}{\alpha}$$

$$= \frac{12\alpha - 30}{\alpha} = 19$$

$$n_1 + n_2 = -b/a \Rightarrow \frac{n_1 + n_2}{2} = \frac{-1\alpha + 3}{2} = 0.175$$

$$0.175 \times 2 = 1.15$$

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

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

$$p = \alpha \Rightarrow \frac{\alpha}{\gamma} \times \frac{1}{\gamma} \times k^2 \Rightarrow k^2 = 9 \Rightarrow k = \pm 3 \quad \left[\frac{k^2}{\gamma} \right] = \left[\frac{9}{2} \right] = 4.5$$

$$-2n^2 - 4n + 1$$

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

$$\frac{-b}{2a} = -1 \Rightarrow b = 2a \quad a n^2 + 2a n + c \Rightarrow \frac{-a^2 - 4ac}{4a} = \frac{a(a-c)}{4}$$

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

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

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

$$\frac{-\alpha + \sqrt{2\alpha + 4m}}{-\gamma} < \frac{9}{4} \Rightarrow -\sqrt{2\alpha + 4m} < 14 \Rightarrow \sqrt{2\alpha + 4m} > -14 \quad -5$$

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

