

$$y = an^2 + bn + c \quad \text{جسکے } (-1, 9) \quad y = a(n+1)^2 + 9 \quad \xrightarrow{\text{جگہ پر}} a(1)^2 + 9 = 1 \quad (1)$$

$$14a = -1 \rightarrow a = -\frac{1}{14} \quad y = -\frac{1}{14}(n+1)^2 + 9$$

$$-\frac{1}{14}n^2 - \frac{1}{14}n + 9 \rightarrow y = -\frac{1}{14}n^2 - \frac{1}{14}n + 11.5$$

$$2m^2 + mn + m + 2 = 0 \rightarrow \Delta > 0 \quad m^2 - 4(m+2)(1) = m^2 - 4m - 8 > 0 \quad (2)$$

$$(m-4)(m+2) > 0 \quad \xrightarrow{-4 \quad 1} \sqrt{(-\infty, -2) \cup (4, +\infty)} \quad (1)$$

$$P > 0 \rightarrow \frac{m+2}{2} > 0 \rightarrow m+2 > 0 \rightarrow m > -2 \quad (2) \quad S > 0 \rightarrow \frac{-m}{2} > 0 \rightarrow \frac{m}{2} < 0 \rightarrow m < 0 \quad (3)$$

$$(1) \cap (2) \cap (3) \rightarrow (-2, 0)$$

$$2m^2 + (2m-1)m + 2 - m = 0$$

$$S = \frac{1}{P} \rightarrow \frac{-2m+1}{2} = \frac{2}{2-m}$$

$$P = \frac{2-m}{2} \quad q = 2m^2 - 2m + 2$$

$$2m^2 - 2m = 0 \rightarrow m = \frac{0 \pm \sqrt{4}}{2} \rightarrow \frac{1 \pm \sqrt{1}}{2} \rightarrow \frac{1 \pm 1}{2} \rightarrow 1, 0$$

$$n^2 - n - 2 = 0 \rightarrow n_1 + n_2 = 1, \quad n_1 n_2 = -2$$

$$(n_1 + n_2)^2 \rightarrow n_1^2 + n_2^2 + 2n_1 n_2 \rightarrow n_1^2 + n_2^2 = 9$$

$$P = \left(n_1 + \frac{1}{n_1}\right) \left(n_2 + \frac{1}{n_2}\right) = \frac{-2}{-2} \rightarrow \frac{(n_1 + n_2)^2 + n_1^2 + n_2^2 + \frac{1}{n_1 n_2}}{-2} = -2 \quad (2)$$

$$S = n_1^2 + \frac{1}{n_1} + n_2^2 + \frac{1}{n_2} \rightarrow \frac{n_1^2 + n_2^2}{(n_1 + n_2)^2 - n_1 n_2} + \frac{n_1 + n_2}{n_1 n_2} \rightarrow 12, 10$$

$$m^2 - 12, 10m - 22, 10 \rightarrow 2m^2 - 24m - 22 = 0$$

$$n\sqrt{m} + 1 + \sqrt{n} - \sqrt{m} - \frac{1}{\sqrt{m}} - 1 = 2\sqrt{m} \rightarrow n\sqrt{m} - \frac{1}{\sqrt{m}} = 2\sqrt{m} \quad (3)$$

$$\left(n\sqrt{m} - \frac{1}{\sqrt{m}} - 2\sqrt{m} = 0\right) \times \sqrt{m} \rightarrow m^2 - 1 - 2m = 0 \quad m = \frac{2 \pm \sqrt{4}}{2}$$

$$\left. \begin{aligned} n_1 &= \frac{2 + 2\sqrt{1}}{2} \rightarrow 1 + \sqrt{1} \\ n_2 &= \frac{2 - 2\sqrt{1}}{2} \rightarrow 1 - \sqrt{1} \end{aligned} \right\} \text{ لہذا } 1 + \sqrt{1} + 1 - \sqrt{1} = (2)$$

$$\begin{aligned}
 & \mu n^r - a n + \varepsilon = 0 \quad n_1 = \mu n^r \quad \mu n^r \times n^r = \mu n^r = \frac{\varepsilon}{\mu} \quad (4) \\
 & \mu n^r = \frac{\varepsilon}{\mu} \rightarrow n^r = \frac{\varepsilon}{\mu^2} \rightarrow \frac{-r}{\mu} \rightarrow n_1 = -r \quad \begin{aligned} r + \frac{r}{\mu} &= \frac{a}{\mu} & -r - \frac{r}{\mu} &= \frac{a}{\mu} \\ a &= \mu & a &= -\mu \end{aligned} \\
 & 1 - (-1) = (16)
 \end{aligned}$$

$$\begin{aligned}
 & y = a n^r + (\mu + \mu a) n \quad a > 0 \quad (1) \quad P = 0 \quad \text{بسیار زیاد می باشد} \quad (5) \\
 & \begin{pmatrix} + \\ 0 \\ \checkmark \end{pmatrix} \begin{pmatrix} - \\ 0 \\ \times \end{pmatrix} \rightarrow S > 0 \rightarrow \frac{-r - \mu a}{a} > 0 \rightarrow (-\frac{\mu}{r} > 0) \rightarrow \frac{-\frac{\mu}{r}}{-\phi + \phi}
 \end{aligned}$$

$$\frac{-b}{\mu a} = \frac{r}{-r} \rightarrow \frac{-a}{r} \rightarrow a = r \quad y = 1 \rightarrow n^r + \mu a + 1 - b \quad (1)$$

$$n^r + \mu n - r \rightarrow b = \varepsilon \quad \mu a b \rightarrow \mu \times \varepsilon = (1)$$

$$\begin{aligned}
 & \mu a n^r + a n - \varepsilon = 0 \rightarrow n_1, n^r \rightarrow n_1 + n^r = \frac{-a}{\mu a} = \frac{-1}{\mu} \quad (6) \\
 & \mu n^r - a n + b \rightarrow (n_1 + 0.1), (n^r + 0.1) \rightarrow S = \frac{(n_1 + n^r + 1)}{\frac{1}{\mu}} = \frac{1}{r} = \frac{a}{r} \\
 & \mu n^r + n - \varepsilon = 0 \rightarrow \frac{-1 \pm \sqrt{4a}}{2} \rightarrow \frac{\mu}{r} \rightarrow r_2 = 1.1 \quad a = 1 \\
 & \left[\frac{ab}{\varepsilon} \right] = \left[\frac{-\varepsilon}{\varepsilon} \right] = [-1.1] = (-2) \quad P = -r \rightarrow \frac{b}{r} \rightarrow b = -\varepsilon
 \end{aligned}$$

$$\begin{aligned}
 & \frac{1}{\mu} = n \quad \frac{1}{\mu} = n^r, n^r \quad (10) \\
 & n^r + \mu n - \mu m = 0 \quad \mu n^r + \mu n - \mu m = 0
 \end{aligned}$$

$$\begin{aligned}
 & n^r + \mu n + m = n^r + \mu n - \mu m \\
 & \mu n = -\mu m \\
 & n = -m
 \end{aligned}$$

$$\begin{aligned}
 & n \times n^r = -\mu m \rightarrow n^r = \frac{-\mu m}{n} \\
 & n^r + \mu n + m = 0 \\
 & n \times n^r = m \rightarrow n^r = \frac{m}{n}
 \end{aligned}$$

$$n^r - \frac{m}{n} = \frac{-\mu m}{n} - \frac{m}{n} = \frac{-\varepsilon m}{n} = (1)$$

