

Note:  
Date:

Subject:

Βιολογία Οικολογία

$$f(m) \begin{cases} m^r + rm & m > a \\ am - \varepsilon & m \leq a \end{cases} \quad \begin{cases} m^r + rm = am - \varepsilon \\ \underline{m=a} \quad a^r + ra - a^r + \varepsilon = 0 \end{cases} \quad (1)$$

$$ra + \varepsilon = 0$$

$$a = -r$$

$$f(m) = \frac{m^r + a}{r m - b}, \quad g(m) = r m + b \quad (2)$$

$$g(m) = r m + b \xrightarrow{(r, r)} r = \varepsilon + b \quad (-1)$$

$$f(m) = \frac{m^r + a}{r m - b} \xrightarrow{(r, r)} \frac{\varepsilon + a}{\varepsilon + b} = r \quad (1)$$

$$f(1) = \frac{1 + 1}{r + 1} = \frac{r}{r} = \varepsilon$$

$$f(m) = \frac{\varepsilon m + 1}{r m^2 + a m + b} \rightarrow D = \mathbb{R} - \{-1, \varepsilon\} \quad (3)$$

γεγονός

$$\rightarrow (m+1)(m-\varepsilon) \rightarrow m^2 - r m - \varepsilon \xrightarrow{x^r} r m^2 - r m - 1$$

$$\rightarrow a = -r, \quad b = -1$$

$$f(1) = \frac{\varepsilon m + 1}{r m^2 + a m + b} \xrightarrow{m=1} \frac{\varepsilon + 1}{r - r - 1} = \frac{\omega}{-1r} = \left( \frac{-\omega}{1r} \right)$$

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$$f(n) = \frac{n^2 - \sqrt{\epsilon}}{-\epsilon n^2 + an + b} \quad D = \mathbb{R} - \{-1\} \quad \textcircled{\epsilon}$$

رشته کسری

$$\rightarrow (n+1)^2 = n^2 + 2n + 1 \quad \times -\epsilon$$

$$\frac{f(n)}{\epsilon} = \frac{n^2 - \sqrt{\epsilon}}{-\epsilon n^2 - \frac{1}{a}n - \frac{\epsilon}{b}} \rightarrow a+b = -1$$

$$f(n) = \frac{2n}{(n-1)(n^2 + mn + 1)} \quad D = \mathbb{R} - \{1\} \quad \textcircled{\epsilon}$$

رشته کسری

(۳) جمله

(۲) جمله

$$\Rightarrow n^2 + mn + 1 \xrightarrow{\text{رشته کسری}} \Delta < 0$$

رشته کسری

$$b^2 - 4ac < 0 \rightarrow m^2 - \epsilon < 0 \rightarrow m^2 < \epsilon \rightarrow -\sqrt{\epsilon} < m < \sqrt{\epsilon}$$

$$f(n) = \sqrt{\epsilon - \frac{1}{n^2}} \geq 0 \quad \textcircled{\epsilon}$$

$$\epsilon - \frac{1}{n^2} \geq 0 \rightarrow \epsilon \geq \frac{1}{n^2} \rightarrow n^2 \geq \frac{1}{\epsilon}$$

$$n \geq \frac{1}{\sqrt{\epsilon}}, \quad n \leq -\frac{1}{\sqrt{\epsilon}}$$

