

۱۹, ۷۵

$$[n] > \varepsilon \rightarrow n > \omega$$

$$[n] \leq \varepsilon \rightarrow n < \omega$$

$$\left\{ \begin{array}{l} \text{I} \quad n-1 < n < \omega \Rightarrow \sqrt{n} \\ \text{II} \quad \varepsilon n + 2 < \omega < n < \sqrt{2n+2} \\ \text{III} \quad n > \frac{-\varepsilon}{2} \end{array} \right\}$$

$$|n| = n > \omega$$

$$|n| = \frac{-\varepsilon}{2} \leq n < \omega$$

$$D_f = \left[\frac{-\varepsilon}{2}, +\infty \right)$$

$$\frac{2\varepsilon n^2 + 3\varepsilon n + 1}{\varepsilon n^2 + \varepsilon n + 1} \Rightarrow \frac{2\varepsilon n + 3}{\varepsilon n^2 + \varepsilon n + 1} \xrightarrow{\text{ساده شود}} = \frac{3(2n+1)}{(2n+1)^2}$$

$$D_f = \varepsilon n^2 + \varepsilon n + 1 \neq 0 \Rightarrow n \neq \frac{-1}{2} \Rightarrow R - \left\{ \frac{-1}{2} \right\}$$

$$= \frac{3}{2n+1}$$

تجارت به سادگی!

$$\frac{n^2 + 2n - n - 2}{n+2} \Rightarrow \frac{(n+1)(n-1)(n+2)}{(n-1)(n+1)} \Rightarrow$$

$$n+2 = n+1 \Rightarrow (n+2) = (n+1)$$

$$2+0, \omega = 2, \omega$$

$$\left\{ \begin{array}{l} a-3b=1 \\ a+b=3 \end{array} \right\} \Rightarrow -4b = -2 \Rightarrow b = \frac{1}{2}$$

$$\frac{n+1}{n-1} = \frac{(n+1)(n+1)}{n^2 + an + b} \Rightarrow \frac{n+1}{n-1} = \frac{(n+1)(n+1)}{(n-1)^2}$$

$$-2+1+1=0$$

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

$$g(n) = (n-2)^2(n) + (n+2)^2(-n) \rightarrow n(n^2 - 4n + 4 - n^2 - 4n - 4) = n(-8n) = -8n^2$$

$$(-2-n)^2$$

$$g(n) = n(-8n) = -8n^2$$

$$f(-1) \Rightarrow x = 1 = f(-1)$$

$$\hookrightarrow f\sqrt{x} = \varepsilon$$

$$f+1 = \omega$$

$$f(\sqrt{x}) \Rightarrow x = -1 = f(\sqrt{x})$$

$$\hookrightarrow \sqrt[3]{-1} + \sqrt{x} = 1$$

$$x + \sqrt{x} = 4 \rightarrow x = 1$$

$$f(4) = (\varepsilon)^{\varepsilon} + \sqrt{x}(\varepsilon) = 2\sqrt{1}$$

$$(x-1) + x-1 + (-x+1) = 0$$

$$x-1 = -(1-x)$$

$$-fx \geq b$$

$$x \leq \frac{b}{f}$$

$$\frac{r}{f}a = 1$$

$$f-g \quad D_f = \{1\}$$

$$1 < -1$$

$$ra - \frac{b}{f} - 1 < = \varepsilon - \sqrt{x} - (-1) = \sqrt{x}$$

$$fx \geq ra$$

$$x \geq \frac{ra}{f}$$

$$b = \varepsilon$$

$$x \geq -1$$

$$x \geq -1$$

$$[-1, \sqrt{x}]$$

$$-x \geq -m \Rightarrow x \leq m$$

$$m = \sqrt{x}$$

$$f-g(\sqrt{x}) = \sqrt{\sqrt{x} + x} - \sqrt{x} = 4\sqrt{x}$$

$$x = 1\sqrt{x} - \sqrt{x}$$

$$m+x = \sqrt{x} + 1\sqrt{x} - \sqrt{x} = \omega + 1\sqrt{x}$$