

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

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

$$\left\{ \begin{array}{l} \text{I} \quad n-1 < n < \omega \Rightarrow \sqrt{n} \\ \text{II} \quad \varepsilon n + 2 < \omega < n < \sqrt{2n+2} \\ \text{III} \quad n > \frac{-\varepsilon}{2} \end{array} \right\} \cup D_f = \left[\frac{-\varepsilon}{2}, +\infty \right)$$

$|0| = n > \omega$ $|1| = \frac{-\varepsilon}{2} \leq n < \omega$

$$\frac{2\varepsilon n^2 + 3\varepsilon n + 11n + 3}{0} \Bigg| \frac{\varepsilon n^2 + \varepsilon n + 1}{9n + 3} \Rightarrow \frac{9n + 3}{\varepsilon n^2 + \varepsilon n + 1} \leftarrow \text{ساده شود}$$

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

$$\frac{n^2 + 2n - n - 2}{0} \Bigg| \frac{n^2 - 1}{n + 2} \Rightarrow \frac{(n+1)(n-1)(n+2)}{(n-1)(n+1)} \Rightarrow n+2 = n+2 \Rightarrow \boxed{c=2}$$

$$2+0/a = 2/a$$

$$\left. \begin{array}{l} \text{I} \quad a-3b=1 \\ \text{II} \quad a+b=3 \end{array} \right\} \xrightarrow{n=-1} -4b = -2 \Rightarrow \boxed{b=0/a}$$

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

$\hookrightarrow \underbrace{n^2 - 2n + 1}_a + \underbrace{1}_b$

$-2+1+1=0$

$$g(x) = (n-2)^2(n) + (n+2)^2(-n) \rightarrow n(n^2 - 4n + 4 - n^2 - 4n - 4) = \cancel{n(-1n)} = n(-1n)$$

$(-2-n)^2 \nearrow$

$$g(n) = n(-1n) = -1n^2$$

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

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

$$f+1 = \omega$$

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

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

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

$$f(4) = (\varepsilon)^4 + \sqrt[3]{\varepsilon} = \sqrt[3]{4}$$

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

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

$$-fx \geq b$$

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

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

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

$$k = -1$$

$$ra - \frac{b}{r} - k = \varepsilon - \sqrt[3]{-1} - (-1) = r$$

$$fx \geq ra$$

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

$$b = \varepsilon$$

$$rx \geq -r$$

$$x \geq -1$$

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

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

$$m = \sqrt{v}$$

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

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

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