

$$\lim_{n \rightarrow \infty} \frac{x_n}{n} \Rightarrow 0 \text{ or } \infty \rightarrow \begin{cases} n > \frac{1}{\epsilon} \\ n < \frac{1}{\epsilon} \end{cases}$$

$$\frac{x(b+a)}{x(a-b)} = \frac{\frac{x}{2}}{\frac{x}{8}} \Rightarrow \frac{b+a}{a-b} = \frac{1}{4} \rightarrow 4b+4a = a-b \Rightarrow a = -5b$$

$$a \times b = \frac{-1}{4} \times \frac{1}{4} = \frac{-1}{16} \rightarrow \text{جواب}$$

$$b-a \Rightarrow \frac{1}{4} \Rightarrow 2b = \frac{1}{2} \Rightarrow \begin{cases} b = \frac{1}{4} \\ a = -\frac{5}{4} \end{cases}$$

$$\frac{y+z}{m} \Rightarrow -10 \Rightarrow \frac{1}{1+m} = -10 \Rightarrow -(1+m) = \frac{1}{10} \Rightarrow -1-m = \frac{1}{10} \Rightarrow m = -\frac{11}{10}$$

$$f(n) = \frac{m n + z}{n - m} \xrightarrow{a+d} f(n) = f^{-1}(n) \rightarrow f \circ f^{-1}(n) = n$$

$$\frac{m n + z}{n - m} \Rightarrow f(n) \Rightarrow y n + r y = m n + z \rightarrow r y - z \Rightarrow m n - y n \Rightarrow r y - z = n(m - y) \rightarrow$$

$$\rightarrow n = \frac{r y - z}{m - y} \Rightarrow R_f \Rightarrow R - f - r \quad f \circ f^{-1}(n) + f^{-1}(n) \Rightarrow n \quad \frac{r n - z}{r - n} = 0 \Rightarrow \begin{cases} r n - z = 0 \\ n = \frac{z}{r} \end{cases}$$

$$f(r - 2n) = r - g\left(\frac{2}{r}\right) \rightarrow r - g\left(\frac{2}{r}\right) = -r \Rightarrow g\left(\frac{2}{r}\right) = 2r \Rightarrow g\left(\frac{1}{r}\right) = \frac{2}{r}$$

$$\epsilon g^{-1}(r) + f^{-1}(r) = \epsilon\left(\frac{2}{r}\right) + r - 2n = \frac{2\epsilon}{r} + r - 2n = \frac{2\epsilon}{r} + r - 2 \cdot \frac{z}{r} = \frac{2\epsilon}{r} + r - \frac{2z}{r}$$

$$y = \frac{-\omega n - 14}{1+n} \rightarrow \frac{\omega n + 14}{1+n} \xrightarrow{\text{نوع 2}} \frac{\omega(n-1) + 14}{1+(n-1)} - 14 \rightarrow$$

$$\rightarrow \frac{\omega n + 14}{n-1} - 14 \rightarrow \frac{\omega n + 14 - 14n + 14}{n-1} \rightarrow \frac{14 - 14n + \omega n}{n-1} = f(n) \rightarrow f^{-1}(n) = \frac{n+4}{n-1}$$

$$\frac{n+4}{n-1} = \frac{r n + 4}{n-1} \Rightarrow (n-1)(n+4) = (n-1)(r n + 4) \Rightarrow n \xrightarrow{-1/4} -1/4 \quad \left. \begin{matrix} \xrightarrow{2/14} 2/14 \end{matrix} \right\} \text{جواب}$$

$$(1+n, n) \quad [y] = \epsilon[n] + c \rightarrow [n] = \frac{[y]}{\epsilon} \rightarrow f^{-1}(n) = n - \frac{1}{\epsilon}[n]$$

$$\{n+m = f(n) = n - [m] \rightarrow n \in \text{مجموعه}$$

$$f-g = n + \epsilon[n] - n + \frac{1}{\epsilon}[n] = \frac{1}{\epsilon}[n]$$

$$\{n-y = m \Rightarrow \{n+m = y$$

$$y = f(n) - g(n)$$

$$n + \epsilon[n] - n + \epsilon \Rightarrow \epsilon[n] + \epsilon$$

$$\omega y \leq \omega n + 1 \quad \left[\frac{y}{\omega}\right] = n \Rightarrow g(n) = n - \epsilon$$