

$$t_{2x+1}$$

① V ② V ③

$$f(\sqrt{n}) \leq f(\sqrt{n}) \rightarrow f(n) \leq \sqrt{n} \rightarrow n + \sqrt{n} - r \leq \sqrt{n} \rightarrow n \leq r \quad (1)$$

$$\sqrt{n} \Rightarrow n \geq 0 \quad (2) \rightarrow (1) \cap (2) \Rightarrow n \in [0, r] \rightarrow \text{مجموعة}$$

$$9 \cos^2 u - 1 \geq 0 \rightarrow \cos^2 u \geq \frac{1}{9} \rightarrow 1 \geq \cos u \geq \frac{1}{3} \xrightarrow[t \in [-1, 1]]{t = 9 \cos^2 u - 1} \sqrt{t} - \sqrt{-t} = \sqrt{t} - \sqrt{-t} \quad (3)$$

$$\xrightarrow{*} A \in [-1, r] \Rightarrow \begin{matrix} f(-1) = -\frac{r}{r} \\ f(r) = \frac{10}{2} \end{matrix} \rightarrow \text{مجموعة} \rightarrow [a, b] = \left[-\frac{r}{r}, \frac{10}{2}\right] \rightarrow b - a = \frac{r}{2}$$

$$f(u) = n - [n + r] = n - [n] - r \quad g(u) = \frac{r^n - r^{-n}}{r} = r^{n-1} - r^{-n-1} \quad (10)$$

$$g \circ f(u) = r^{n - [n] - r - 1} = r^{-n + [n] + r - 1} = r^{n - [n] - r} = r^{[n] - n + 1}$$

$$\xrightarrow{\cdot [n - [n] r]} \min = r^{-r} - r^1 = -\frac{10}{\wedge} \quad \text{Range } g \circ f = \left[-\frac{10}{\wedge}, -\frac{r}{r}\right]$$

$$\max = r^{-r} - r^1 = -\frac{r}{2}$$

$$Df \circ f \rightarrow L(n) \in Df \rightarrow n + \sqrt{n} - 2 \geq 0$$

$$(\sqrt{n} + 2)(\sqrt{n} - 1) \geq 0 \rightarrow n \geq 1 \quad \text{انتزاع}$$

$$1 \leq n \leq 2$$

$$Df \circ f = [1, 2] \quad \text{نقطه}$$