

$$D_{f(m)} = [-1, 1] \quad Df\left(\frac{m+1}{\omega}\right) = ?$$

①

$$-1 \leq \frac{m+1}{\omega} \leq 1 \rightarrow -1 \leq m+1 \leq \omega \rightarrow -1 \leq m \leq \omega-1 \rightarrow -1 \leq m \leq \omega$$

$$-1 \leq m \leq \omega \rightarrow -1 \leq m \leq \omega \rightarrow -1 \leq m-1 \leq \omega-1 \rightarrow Df = [-1, \omega] \quad ②$$

$$-1 \leq m \leq \omega \rightarrow -1 \leq \frac{m+1}{\omega} \leq \omega \rightarrow Df = [-1, \omega] \quad ③$$

$$-1 \leq \omega - m \leq \omega \rightarrow -\frac{\omega}{\omega} \leq m \leq \frac{\omega}{\omega} \rightarrow D = \left(-\frac{\omega}{\omega}, \frac{\omega}{\omega}\right)$$

④

⑤

⑥

$$(1, r) \rightarrow r_{m+r} = 1 \rightarrow m = -\frac{1}{r}, \quad a = -\frac{1}{r} \quad (v)$$

$$y = 1 - r \times r = -V \rightarrow B = -V \rightarrow a \leq \frac{V}{r}$$

$$D f(m-1) = (a+1, a], \quad D g(m+1) = [-r, b-1] \quad (A)$$

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

$$-\frac{1}{r} \leq a \rightarrow -\frac{1}{r} \leq \frac{m+r}{r} \leq \frac{V}{r} \rightarrow D \leq \left[-\frac{1}{r}, \frac{V}{r}\right] \quad (9)$$

$$-1 \leq f(m) \leq r \rightarrow -a \leq r f(m) - r \leq 1 \rightarrow 0 \leq |r f(m) - r| \leq a$$

$$0 \leq \sqrt{|r f(m) - r|} \leq \sqrt{a}$$

$$\text{نوع اول} \rightarrow n \rightarrow (n-r) \Rightarrow g_m \left| \frac{(n-r)+1}{r(n-r)+1} \right| + 1 \quad \text{نوع دوم} \rightarrow \quad (10)$$

$$g(m)+m = \left| \frac{n-1}{r_{m-r}} \right| + m+1 \leq 0 \rightarrow m < -1 \rightarrow \frac{n-1}{r_{m-r}} > 0 \Rightarrow$$

$$m+1 + \frac{n-1}{r_{m-r}} \leq 0 \rightarrow \frac{r_{m-r} - r}{r_{m-r}} \leq 0 \rightarrow m^r - r > 0 \quad \frac{-\sqrt{r} \quad \sqrt{r}}{+r - r + x} \quad (-\infty, -\sqrt{r})$$