

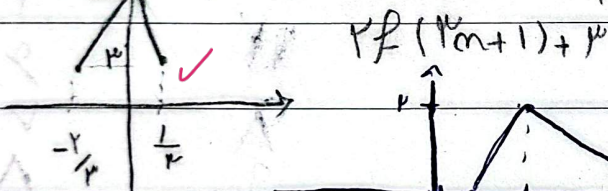
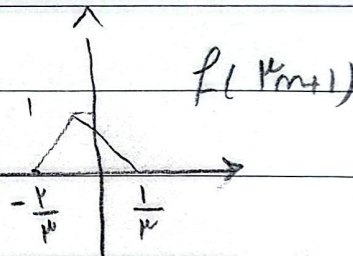
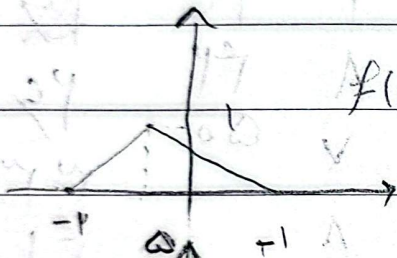
$$D_{f(m)} = [-1, 1] \quad Df\left(\frac{m+1}{\omega}\right) = ?$$

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

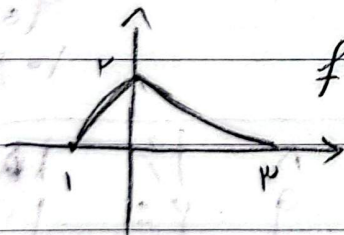
$$-1 \leq m \leq \omega \rightarrow -1 \leq m \leq \omega \rightarrow -1 \leq m-1 \leq \omega-1 \rightarrow Df = [-1, \omega]$$

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

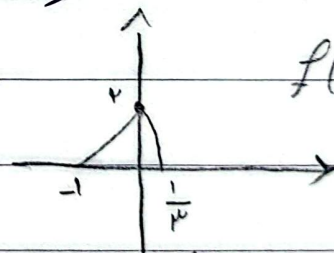
$$-1 \leq \omega - m \leq \omega \rightarrow -\frac{\omega}{\omega} \leq m \leq \frac{\omega}{\omega} \rightarrow D = \left(-\frac{\omega}{\omega}, \frac{\omega}{\omega}\right]$$



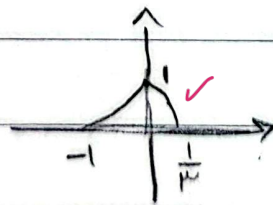
$$f(m+\omega)$$



$$f(\omega - m)$$



$$y = \frac{1}{\omega} f(\omega - m)$$



$$-\frac{1}{\omega} (m - \omega)^2 + \omega = 0 \rightarrow (m - \omega)^2 = \omega \rightarrow m = 1, m = \omega$$

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

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

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

$$1+a = -r \rightarrow a = -\frac{1}{r}, \quad b-1 = a \rightarrow b = \frac{1}{r} \rightarrow a-b = -\frac{2}{r}$$

$$-\frac{1}{r} \leq a \leq 0 \rightarrow -\frac{1}{r} \leq \frac{m+r}{r} \leq \frac{v}{r} \rightarrow 0 \leq \left[-\frac{1}{r}, \frac{v}{r}\right] \quad (r) \quad (v)$$

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

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

$$n \rightarrow (n-r) \Rightarrow g_m \left| \frac{(n-r)+1}{r(n-r)+1} \right| + 1 \quad \text{يك دالو دالو} \quad (r) \quad (v)$$

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

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