

$$Df = [-r, r] \rightarrow Df\left(\frac{r_{m+1}}{0}\right) = [-r, r]$$

(1)

$$-r \leq \frac{r_{m+1}}{0} \leq r \rightarrow -1 \leq r_{m+1} \leq r \rightarrow -1r \leq r_m \leq 1r \quad -r \leq u \leq r$$

$$Df(r_m - r) = [-r, r] \rightarrow Df(r_m) = [-1r, 1r]$$

(2)

$$-r \leq u \leq r \rightarrow -1 \leq r_m - r \leq 1r$$

$$Df\left(\frac{r_{m+1}}{r}\right) = [-1r, r]$$

(3)

~~$$-r \leq \frac{r_{m+1}}{r} \leq r \rightarrow -1 \leq r_{m+1} \leq 1r$$~~

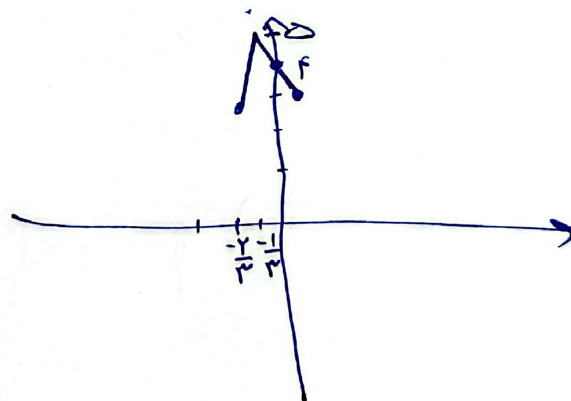
~~$$-1 \leq \frac{r_{m+1}}{r} \leq 1$$~~

$$\hookrightarrow Df(r_m) = [-1, 0] \rightarrow Df(r - 0u) = \left(-\frac{r}{0}, \frac{r}{0}\right] \quad -1 \leq u < r \quad -1 \leq \frac{r_{m+1}}{r} < 0$$

$$-1 \leq r - 0u < 0 \rightarrow -r \leq -0u < r \rightarrow -\frac{r}{0} < u \leq \frac{r}{0}$$

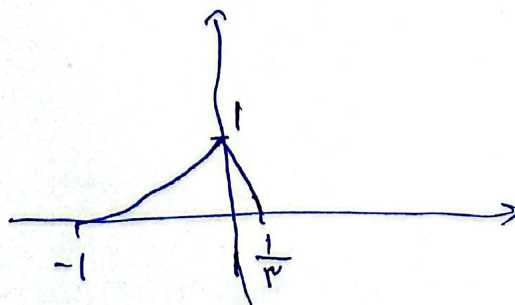
(15)

$$y = r f(r_{m+1}) + r \rightarrow$$



(16)

$$f(r - r_m) \rightarrow$$



$$y = -\frac{1}{r}u^r + \frac{r}{\delta}u + 1 \quad \text{ent} \left| \frac{r}{\delta} \right|$$

$$y = a(x-h)^r + k \quad \text{ent} \left| \frac{r}{r} \right|$$

$$\rightarrow h=r, \quad k=r, \quad a=-\frac{1}{r} \rightarrow -\frac{1}{r}(u-r)^r + r = 0 \rightarrow u = \sqrt[r]{r}$$

(V)

$$\begin{aligned} Df(n) = (a, r] &\rightarrow Df(n+1) = (a+1, d] \\ Dg(n) = [-1, b) &\rightarrow Dg(n+1) = [-r, b-1) \end{aligned} \left. \vphantom{\begin{aligned} Df(n) = (a, r] \\ Dg(n) = [-1, b) \end{aligned}} \right\} \xrightarrow{\cap} (r, d) \rightarrow \begin{cases} a+1=r \\ b-1=d \end{cases}$$

$$\rightarrow \begin{cases} a=-r \\ b=r \end{cases}$$

$$\rightarrow a-b = \underline{-9}$$

(9)

$$\begin{aligned} -r \leq u \leq 0 &\rightarrow 0 \leq \frac{u}{r} + 1 \leq r \rightarrow Dg_r = Df = [-0, d, r, d] \\ Rf = [-1, r] &\rightarrow -\delta(rf(n) - r) \leq 1 \rightarrow Rg_r = [0, \sqrt{d}] \end{aligned}$$

$$g(n) = \left| \frac{n-1}{rn-r} \right| + 1 \rightarrow \left| \frac{n-1}{rn-r} \right| + 1 + n < 0$$

$$\rightarrow n \in (-\infty, -\sqrt{r}) \cup (\sqrt{r}, 1, d)$$

$$\left. \begin{aligned} \frac{n-1}{rn-r} - n - 1 > 0 &\rightarrow n \in (-\infty, \frac{1-\sqrt{d}}{r}) \cup (1, d, \frac{1+\sqrt{d}}{r}) \end{aligned} \right\} \xrightarrow{\cap} (-\infty, -\sqrt{r})$$

(1)

$$1+n < \frac{n-1}{rn-r} < -1-n$$