

$$D_{f(m)} = [-r, r]$$

$$D \left(f\left(\frac{r_{m+1}}{a}\right) \right)$$

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

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

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

$$-r \leq m \leq r$$

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

$$f(r_{m+1}) \rightarrow [-r, r] \quad f(r_m) = ? \rightarrow D_{f(m)} = [-r, r]$$

$$-r \leq r_m \leq r$$

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

$$-r \leq r_m - r \leq r$$

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

$$D \left(f(r - a_m) \right) \rightarrow D_{f(r - a_m)} = \left(-\frac{r}{a}, \frac{r}{a} \right]$$

$$-1 \leq m \leq 1$$

$$-r \leq r_m \leq r$$

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

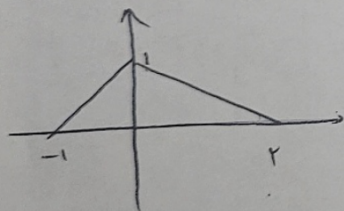
$$-1 \leq \frac{r_{m+1}}{r} \leq 1$$

$$-1 \leq r - a_m \leq r$$

$$-r \leq -a_m \leq r$$

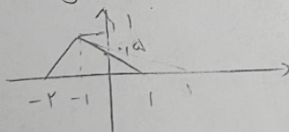
$$-\frac{r}{a} \leq -m \leq \frac{r}{a} \rightarrow \frac{r}{a} \geq m \geq -\frac{r}{a}$$

$$f(m)$$

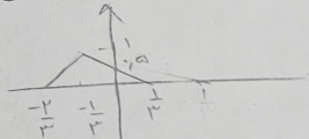


$$y = f\left(\frac{r_{m+1}}{r}\right) + r$$

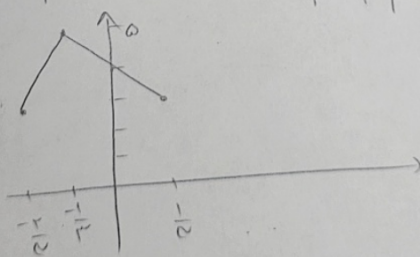
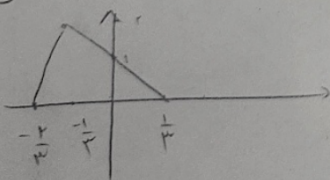
$$y = f(m+1)$$



$$y = f\left(\frac{r_{m+1}}{r}\right)$$



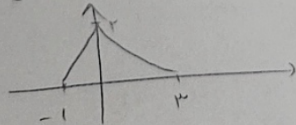
$$y = f\left(\frac{r_{m+1}}{r}\right)$$



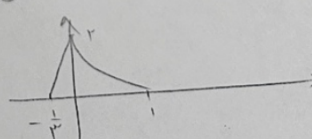
$$f(m)$$

$$y = \frac{1}{r} f(r - r_m)$$

$$y = f(m+r)$$

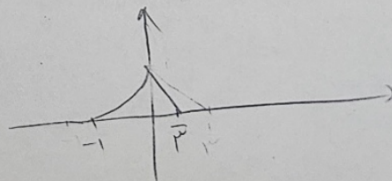
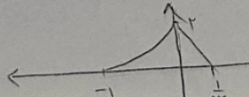


$$y = f\left(\frac{r_{m+1}}{r}\right)$$



$$y = f\left(-\frac{r_{m+1}}{r}\right)$$

$$y = \frac{1}{r} f\left(-\frac{r_{m+1}}{r}\right)$$



$y = -\frac{1}{\mu}x^2 + \frac{\nu}{\alpha}x + 1$ $\rightarrow$ $-\frac{1}{\mu}x^2 + \frac{\nu}{\alpha}x + 1 = 0$ $\rightarrow$ $-\frac{1}{\mu}(x-\varepsilon)^2 + \nu = 0$ $\rightarrow$ $(x-\varepsilon)^2 = \nu$ $\rightarrow$ $x-\varepsilon = \pm\sqrt{\nu}$ $\rightarrow$ $x = \varepsilon \pm \sqrt{\nu}$ $\rightarrow$ $x = \varepsilon + \sqrt{\nu}$ $\rightarrow$ $x = \varepsilon - \sqrt{\nu}$

$y = 1 - 2f(x_{n+1})$ $A(\alpha, \beta)$ $\alpha\beta = ?$
 $(-\frac{1}{\mu}, -\nu)$ $(-\frac{1}{\mu})(-\nu) = \frac{\nu}{\mu}$
 $y = 1 - 2f(x) = -\nu$

$D_f = (a, \varepsilon]$ $D_g = [-1, b)$ $y = f(x-1) + g(x+1) \rightarrow D(-1, \alpha)$ $a-b = ?$
 $a < x-1 < \varepsilon$ $-1 < x+1 < b$ $-3-4 = -9$
 $a+1 < x < \alpha$ $-1 < x < b-1 \rightarrow a+1 = -1 \rightarrow a = -2$
 $b-1 = \alpha \rightarrow b = \alpha+1$

$y = \sqrt{|2f(x) - 3|} \geq 0 \rightarrow$ $D_y = [-\frac{1}{\mu}, \frac{\nu}{\mu}]$ $R_{y_f} = [0, \alpha]$
 $-3 < x < \alpha$ $-1 < f(x_{n+1}) < 2$
 $-\frac{3}{\mu} < \frac{y}{\mu} < \frac{\alpha}{\mu}$ $-2 < 2f(x) < \varepsilon$
 $-\frac{1}{\mu} < \frac{y}{\mu} + 1 < \frac{\nu}{\mu}$ $0 < |2f(x) - 3| < 1$
 $0 < |2f(x) - 3| < 1$

$f(x) = \left| \frac{x+1}{x_{n+1}} \right|$ $\left| \frac{x-1}{x(n-1)+1} \right| + 1 = g(x)$

$g(x) = \left| \frac{x-1}{x_{n-1}} \right| + 1$ $x + \left| \frac{x-1}{x_{n-1}} \right| + 1 < 0 \rightarrow$
 $x > \frac{\mu}{\mu}$ $x + \frac{x-1}{x_{n-1}} + 1 < 0$ $\frac{x_{n-1}x + x - 1 + x_{n-1}}{x_{n-1}} = \frac{x_{n-1}x + x - 1 + x_{n-1}}{x_{n-1}}$ $\frac{-\sqrt{x} \sqrt{x} \frac{x}{x}}{x_{n-1}}$ X
 $1 < x < \frac{\mu}{\mu}$ $x + \frac{x-1}{x_{n-1}} + 1 < 0$ $\frac{x_{n-1}x + x - 1 + x_{n-1}}{x_{n-1}} = \frac{x_{n-1}x + x - 1 + x_{n-1}}{x_{n-1}}$ $\frac{-\frac{x}{x} \frac{x}{x} \frac{x}{x}}{x_{n-1}}$ X
 $x < 1$ $x + \frac{x-1}{x_{n-1}} + 1 < 0$ $\frac{x_{n-1}x + x - 1 + x_{n-1}}{x_{n-1}} = \frac{x_{n-1}x + x - 1 + x_{n-1}}{x_{n-1}}$ $\frac{-\sqrt{x} \sqrt{x} \frac{x}{x}}{x_{n-1}}$ X
 $(-\infty, -\sqrt{x})$