

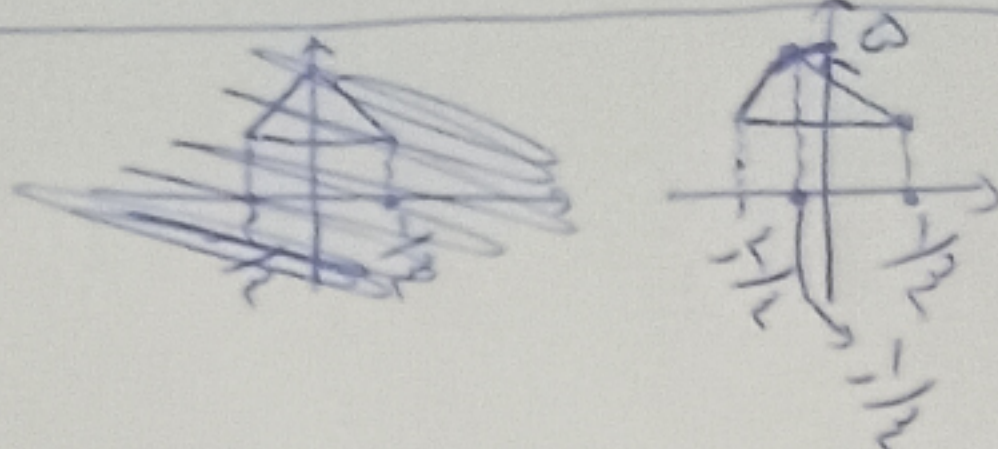
$$-1 < n < 1 \rightarrow -1 < \frac{n+1}{2} < 1 \rightarrow -1 < n < 1$$

$$D_f = [-1, 1]$$

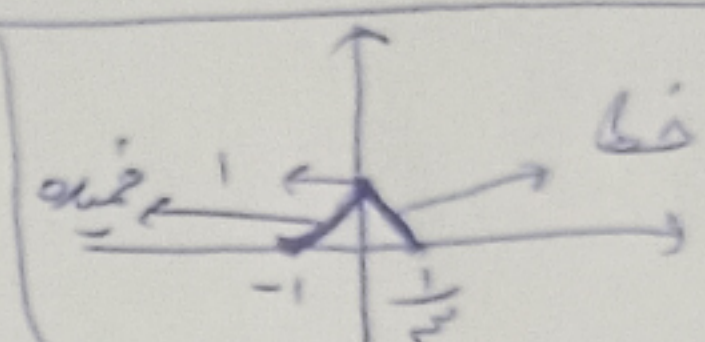
$$-1 < n < 1 \rightarrow -1 < \frac{n+1}{2} < 1 \rightarrow -1 < 2n < 1 \rightarrow -\frac{1}{2} < n < \frac{1}{2}$$

$$-1 < n+1 < 1 \rightarrow -\frac{1}{2} < n < \frac{1}{2}$$

$$R_f = [0, 1] \rightarrow \mathcal{L}_f = [1, 2]$$



$$\frac{n+1}{2} < 1 \rightarrow \frac{n+1}{2} < 1 \rightarrow n < 1$$



$$\Rightarrow -\frac{1}{2} < n < \frac{1}{2} \rightarrow -1 < 2n < 1 \rightarrow -\frac{1}{2} < n < \frac{1}{2}$$

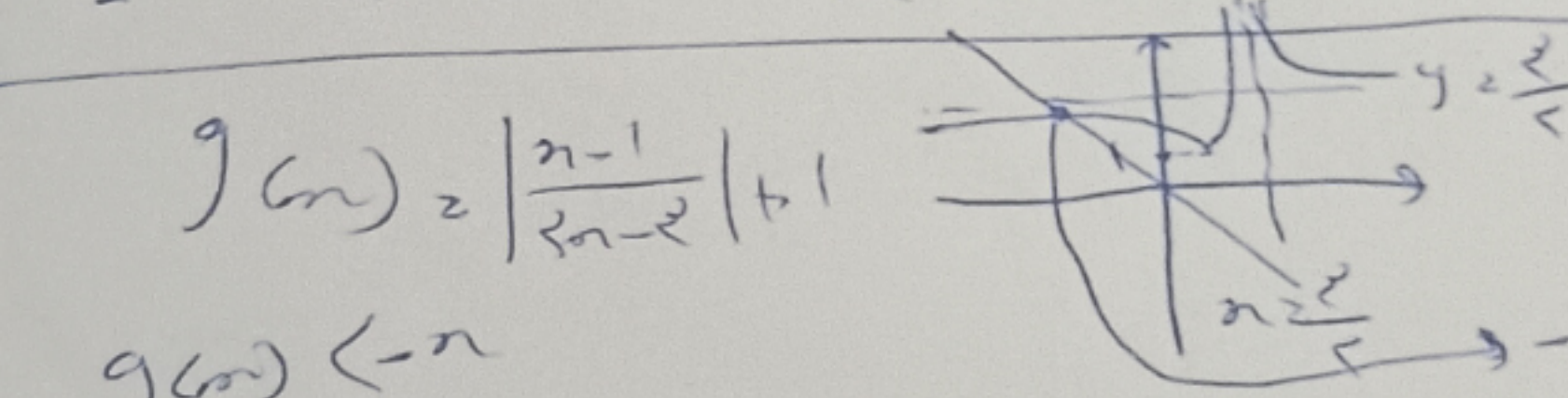
$$-1 < n+1 < 1 \rightarrow -\frac{1}{2} < n < \frac{1}{2}$$

$$n < n-1 < 1 \rightarrow n+1 < n < 1$$

$$\rightarrow b-1 < a \rightarrow b < a+1 \rightarrow a < b-1 \rightarrow a+1 < b \rightarrow a < b-1$$

$$R_f = [-1, 1] \xrightarrow{f} [-1, 1] \xrightarrow{f} [-1, 1] \xrightarrow{f} [0, 1] \xrightarrow{f} [0, \sqrt{2}]$$

$$D_f = -1 < n < 1 \rightarrow -\frac{1}{2} < n < \frac{1}{2} \rightarrow D_f = [-\frac{1}{2}, \frac{1}{2}]$$



$$g(x) < -n \rightarrow \frac{x-1}{x-2} + 1 < -n \rightarrow \frac{x-1}{x-2} < -n-1 \rightarrow \frac{x-1}{x-2} < -n-1$$

$$\rightarrow \frac{x-1}{x-2} < -n-1 \rightarrow x-1 < (-n-1)(x-2) \rightarrow x-1 < -nx-2n-2x+4 \rightarrow x-1 < -nx-2n-2x+4$$