

$$D_f = [-1, 2]$$

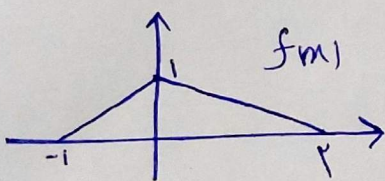
$$\Rightarrow -1 \leq \frac{3n+2}{5} \leq 2 \Rightarrow -10 \leq 3n+2 \leq 10 \Rightarrow -12 \leq 3n \leq 18$$

$$\Rightarrow -4 \leq n \leq 6$$

$$-4 \leq n \leq 6 \Rightarrow -8 \leq 3n \leq 18 \Rightarrow -8 \leq 3n-2 \leq 16$$

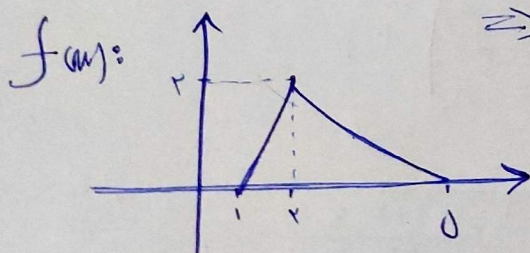
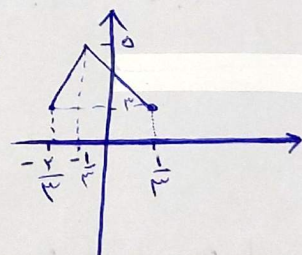
$$-1 \leq n \leq 2 \Rightarrow -2 \leq 3n+1 \leq 7 \Rightarrow -1 \leq \frac{3n+1}{2} \leq 3.5$$

$$\Rightarrow -1 \leq 2-3n \leq 3 \Rightarrow -2 \leq -3n \leq 5 \Rightarrow \frac{2}{3} \geq n \geq -\frac{5}{3}$$



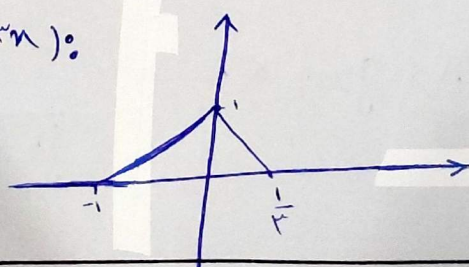
$$\Rightarrow D_f = [-1, 2] \Rightarrow -1 \leq 3n+1 \leq 2 \Rightarrow -2 \leq 3n \leq 1 \Rightarrow -\frac{2}{3} \leq n \leq \frac{1}{3}$$

$$\Rightarrow f(3n+1) + 1$$



$$\Rightarrow D_f = [1, 2] \Rightarrow 1 \leq 2-3n \leq 3 \Rightarrow -1 \leq -3n \leq 2 \Rightarrow \frac{1}{3} \geq n \geq -\frac{2}{3}$$

$$\Rightarrow f(2-3n)$$



$$XB = \frac{-1}{r} \Leftrightarrow \left(-\frac{1}{r}, 1\right) \quad \text{نقطة تقاطع المحاور : } f(rn+r)(1,0) \leftarrow$$

$$x_5 = \frac{\frac{r}{0}}{\frac{-r}{r}} = \frac{r}{0}, \quad y_5 = -\frac{1}{r}\left(\frac{r}{0}\right) + \frac{r}{0}\left(\frac{r}{0}\right) + 1 = \frac{-r}{r0} + \frac{r}{r0} + 1 = \frac{-r + r + r0}{r0} = \frac{r0}{r0} = 1$$

$$f: a(x-1) \leq r \Rightarrow a(x-1) \leq 0 \quad D = (-r, 0)$$

$$g: -1 \leq x+1 < b \Rightarrow -r \leq x < b-1$$

$$\begin{cases} b-1 = 0 \Rightarrow b=1 \\ a+1 = -r \Rightarrow a = -r-1 \end{cases}$$

$$a-b = -r-1-1 = -r-2$$

$$D_f = D_g = [-r, 0]$$

$$R_f \Rightarrow \text{نقطة تقاطع المحاور} \rightarrow [-r, 0] \Rightarrow [-0, 0] \Rightarrow [0, 0]$$

$$g(x) = \left| \frac{x-1}{r(x-r)+1} \right| + 1 \Rightarrow g(x) = \left| \frac{x+1}{rx-r} \right| + 1$$

$$\Rightarrow x + g(x) < 0$$

$$\frac{rx-r}{rx-r} \quad \frac{-1}{rx-r} + \frac{1}{r} + \frac{x+1+r-r}{rx-r} = \frac{rx-r+rx-r-rx}{rx-r} = \frac{rx-r}{rx-r} = 1$$

$$\frac{rx-r}{rx-r} < 0 \Rightarrow \frac{rx-r}{rx-r} < 0$$

$$\text{جواب: } (-\infty, -1) \cup \left(\frac{r-r}{r}, \infty\right) \Leftrightarrow$$

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