

زهرامری - دوازدهم دختر A

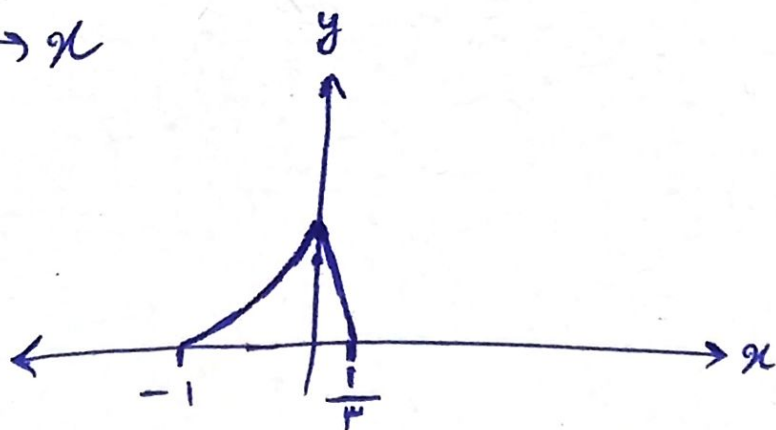
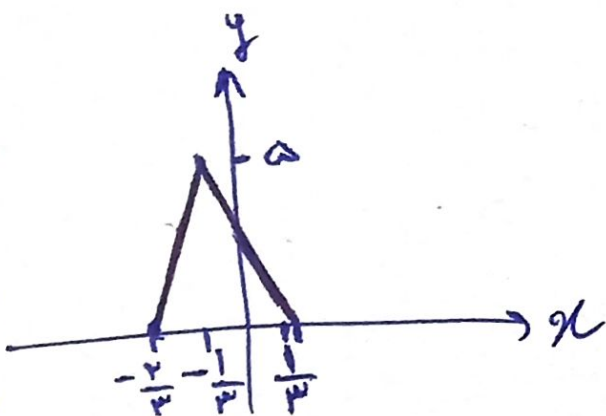
$$-1, 1 \leq \frac{3x+1}{2} \leq 1 \rightarrow -1, 1 \leq 3x+1 \leq 2 \rightarrow \boxed{-\frac{2}{3} \leq x \leq \frac{1}{3}}$$

$$\left. \begin{array}{l} 3x(-1) - 1 = -1 \\ 3x \cdot 1 - 1 = 1 \end{array} \right\} \rightarrow \boxed{D_f = [-1, 1]}$$

$$D_f = \frac{-1+1}{2} = -1 \text{ و } \frac{3x+1}{2} = 1$$

$$[-1, 1] \rightarrow -1, 1 - 2x + 1 \leq 1 \rightarrow \boxed{-\frac{1}{2} \leq x \leq \frac{1}{2}}$$

$$2f(3x+1) + 1$$



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$$\frac{-\frac{r}{a}}{-\frac{r}{r}} = +\frac{r}{a} \rightarrow -\frac{1}{r} \times \frac{r}{ra} + \frac{r}{ra} + 1 = \frac{ra}{ra} \rightarrow \left(\frac{r}{a}, \frac{ra}{ra}\right)$$

$$ra \times \underbrace{f\left(\frac{1}{a}x - \frac{1}{a}\right)}_{f\left(\frac{1}{a}x - \frac{1}{a}\right)} - ra = 0 \quad \leftarrow f\left(\frac{1}{a}x - \frac{1}{a}\right)$$

$$\hookrightarrow f(t) = 1 \rightarrow t = 0 \rightarrow \boxed{x = 0}$$

$$f(x) \xrightarrow{\text{مستقيم}} (1, r) \rightarrow \left(-\frac{1}{r}, -r\right) \rightarrow \boxed{-\frac{1}{r}x - r = +\frac{r}{r}}$$

$$f(x) \xrightarrow{\text{نقطه انتقال}} (a+1, d) \text{ (I)}, \quad g(x) \xrightarrow{\text{نقطه انتقال}} [-r, b-1] \text{ (II)}$$

$$\hookrightarrow \text{(I) } \cap \text{ (II)} = (-r, d) \rightarrow a+1 = -r \rightarrow \boxed{a = -3} \rightarrow b-1 = d \rightarrow \boxed{b = 4}$$

$$-3 - 4 = \boxed{-7}$$

$$R_{f\left(\frac{a}{r}+1\right)} = R_{f(x)} = [-1, r] \rightarrow \sqrt{|rf(x) - r|} \rightarrow R_{y_r} = [0, \sqrt{a}]$$

$$D_{y_r} = \left[\underbrace{-\frac{r}{r}+1}_{-\frac{1}{r}}, \frac{a}{r}+1\right] \rightarrow D_{y_r} = \left[-\frac{1}{r}, \frac{r}{r}\right]$$

$$\left| \frac{x-1}{x^2-3} \right| + |x-5| \rightarrow \frac{x^2-3x+3x-5}{x^2-3} < 0$$

$$\boxed{-\sqrt{2}} \text{ تنهائی لوجیکل صفائی عدد } \frac{x^2-1}{x^2-3} < 0$$

$$\boxed{x \in (-\infty, -\sqrt{2})} \leftarrow \text{است}$$

