

$$-2 \leq \frac{3x+2}{5} \leq 4 \rightarrow -10 \leq 3x+2 \leq 20$$

$$\rightarrow -12 \leq 3x \leq 18 \rightarrow \boxed{-4 \leq x \leq 6}$$

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$$-2 \leq x \leq 3 \quad -4 \leq 3x \leq 9 \quad -1 \leq 3x-2 \leq 7$$

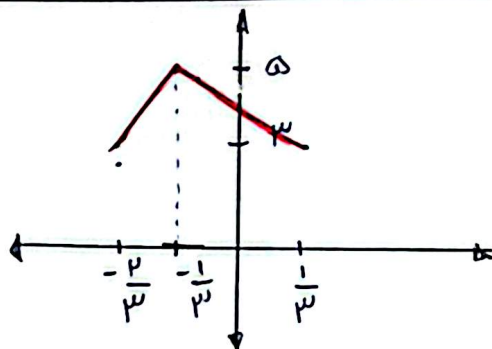
$$D_{f(x)} = \boxed{[-1, 7]}$$

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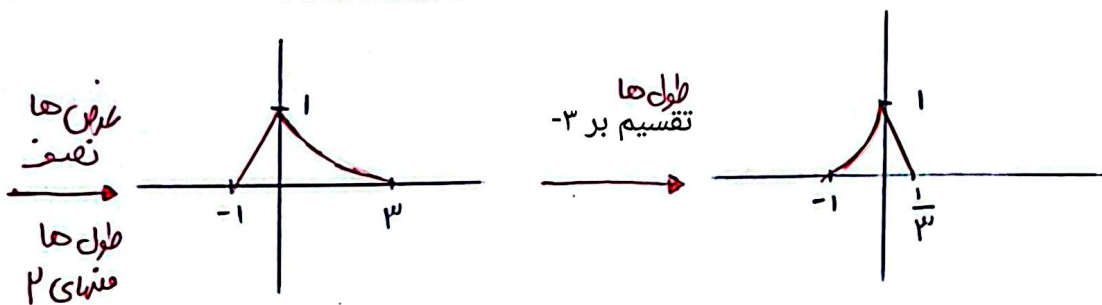
$$-1 \leq x \leq 3 \rightarrow -2 \leq 3x+1 \leq 10 \rightarrow -1 \leq \frac{3x+1}{4} \leq 5$$

$$-1 \leq 2-5x \leq 5 \rightarrow -3 \leq -5x \leq 3 \rightarrow -\frac{3}{5} \leq x \leq \frac{3}{5} \quad \boxed{\left[-\frac{3}{5}, \frac{3}{5}\right]}$$

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$$y = -\frac{1}{\mu}(x-1)^2 + \mu \xrightarrow{y=0} \frac{1}{\mu}(x-1)^2 = \mu \rightarrow (x-1)^2 = 4$$

$$x-1 = \sqrt{} \rightarrow +\mu \rightarrow \boxed{x=5}$$

$$x-1 = -\mu \rightarrow \boxed{x=1}$$

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$$x_5 = 1 \xrightarrow{-1} -1 \xrightarrow{\times \frac{1}{\mu}} -\frac{1}{\mu}$$

$$y_5 = 1 \xrightarrow{x(-1)+1} -1$$

$$\rightarrow A(-1, -\frac{1}{\mu})$$

$$\boxed{\alpha\beta = \frac{V}{\mu}}$$

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$$a < x-1 < 1 \rightarrow a+1 < x < 2$$

$$-1 < x+1 < b \rightarrow -2 < x < b-1$$

$$b-1=5 \rightarrow b=6$$

$$a+1=-2 \rightarrow a=-3$$

$$a-b = -3-6 = \boxed{-9}$$

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$$R_y = [-1, 2] \xrightarrow{\times 2} [-2, 4] \xrightarrow{-3} [-5, 1] \xrightarrow{+1} [-4, 2] \xrightarrow{\sqrt{}} \boxed{[-4, \sqrt{2}]}$$

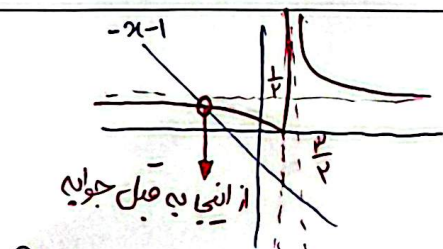
$$D_y = [-3, 5] \xrightarrow{+1} [-2, 6] \xrightarrow{\times \frac{1}{2}} \boxed{[-1, 3]}$$

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$$g(x) = \left| \frac{x-2+1}{2(x-2)+1} \right| + 1 = \left| \frac{x-1}{2x-3} \right| + 1$$

$$\left| \frac{x-1}{2x-3} \right| < -x-1 \Rightarrow \frac{x-1}{2x-3} = -x-1$$

$$\boxed{(-\infty, -\sqrt{2})}$$



$$\rightarrow x = \pm\sqrt{2} \rightarrow -\sqrt{2} \text{ قابل تقبل}$$

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