

$$-2 < \frac{x+2}{0} < 4 \rightarrow -1 < x+2 < 4 \rightarrow -3 < x < 2 \rightarrow D = [-3, 2]$$

$$-2 < x < 3 \rightarrow -1 < x-2 < 1 \rightarrow D = [-1, 1]$$

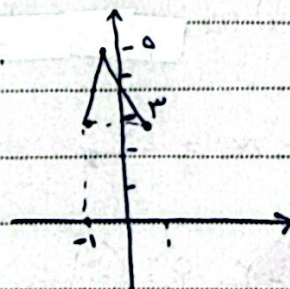
$$-1 < x < 2 \rightarrow -1 < \frac{x+1}{1} < 0 \rightarrow D = [-1, 0]$$

$$-1 < 2-5x < 0 \rightarrow -\frac{3}{5} < x < \frac{2}{5} \rightarrow D = (-\frac{3}{5}, \frac{2}{5}]$$

$$\left| \begin{array}{ccc} -1 & -1 & -2+3 \\ 0 & +3 & 3 \end{array} \right| = \frac{2}{3}$$

$$\left| \begin{array}{ccc} 0 & -1 & -1+3 \\ 1 & +3 & 2+3 \end{array} \right| = \frac{1}{3}$$

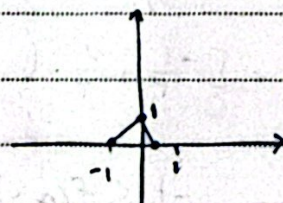
$$\left| \begin{array}{ccc} 2 & -1 & 1+3 \\ 0 & +3 & 3 \end{array} \right| = \frac{1}{3}$$



$$\left| \begin{array}{ccc} -2 & -1 & -1+3 \\ 0 & +3 & 3 \end{array} \right| = \frac{1}{3}$$

$$\left| \begin{array}{ccc} 2 & -2 & 0 \\ 2 & +3 & 1 \end{array} \right| = 0$$

$$\left| \begin{array}{ccc} 0 & -2 & 3+3 \\ 0 & +3 & 3 \end{array} \right| = -1$$



$$\frac{1}{3} (x-5)^2 + 3 = 0 \rightarrow \frac{1}{3} (x-5)^2 = -3 \rightarrow (x-5)^2 = -9$$

$$\Rightarrow x-5 = \pm 3 \begin{cases} x=1 \\ x=8 \end{cases} \rightarrow V = \{1, 8\}$$

$$f(x) = a(x+1)/(x-3)$$

$$f = a(2)/(-2) \Rightarrow a = -1$$

$$x = 2 \rightarrow y = 1 - 2(2) = -3$$

$$\Rightarrow A(-\frac{1}{3}, -3) \Rightarrow \alpha\beta = \frac{V}{3}$$

$$f(x) \begin{cases} x \in (-\infty, a) \\ x \in (a, \infty) \end{cases} \quad g(x) \begin{cases} x \in [-1, b) \\ x \in (b, 1) \end{cases}$$

$$f(x+1) + g(x-1) \Rightarrow (-2, 2) \rightarrow \text{نقطه}$$

$$\Rightarrow 1 + a = -2 \Rightarrow a = -3, \quad b - 1 = 2 \Rightarrow b = 3$$

$$\alpha\beta = -3 \Rightarrow (-1)$$

$$a \rightarrow -3 \leq x \leq 2 \Rightarrow -\frac{1}{3} \leq \frac{x+1}{x-3} \leq \frac{V}{3}$$

$$\Rightarrow D = [-\frac{1}{3}, \frac{V}{3}]$$

$$D \rightarrow -1 \leq f(x) \leq 2 \rightarrow -3 \leq f(x)-3 \leq 1 \rightarrow 1 \leq |f(x)-3|$$

$$\sqrt{\quad}, R = [1, 2]$$

$$g(x) = \left| \frac{x-1}{x-3} \right| < 1 \rightarrow x + g(x) < 0 \rightarrow x + \left| \frac{x-1}{x-3} \right| < 0 \Rightarrow (x < -1) \rightarrow 1$$

$$(-\infty, -1) \rightarrow \frac{x-1}{x-3} > 0 \Rightarrow x+1 + \frac{x-1}{x-3} < 0 \rightarrow \frac{2x^2 - 4}{x-3} < 0$$

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$$x^2 - 2 > 0 \Rightarrow x < -1 \Rightarrow \text{نقطه} \Rightarrow (-\infty, -1)$$