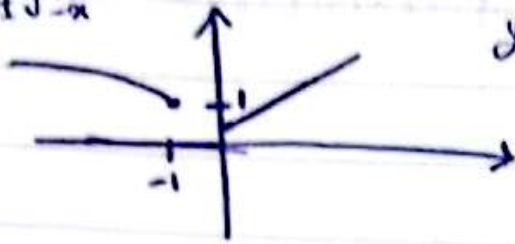


شماره ۲

مسار رفتاری راد دوازدهم پسر A

۱۸، ۷۵

$$y = \sqrt{1-x}$$



$$y = \frac{x}{2} + \frac{1}{2}$$

۱- آره تابع هست

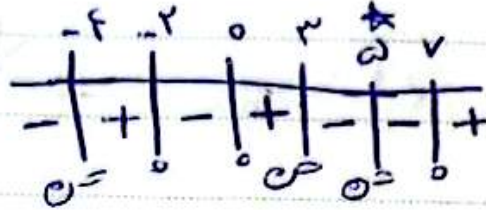
(۲)

۰ و ۷ و ۵ و ۲

$$x f(x-2)$$

$$f(x)$$

۰ و ۲ و ۴



(۲) -۲

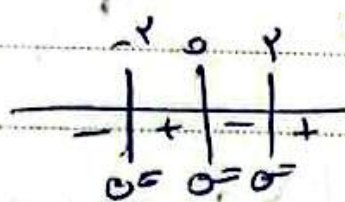
$$D_f = (-4, -2] \cup [0, 2) \cup [7, +\infty)$$

فقط خواست باشد که $x=4$ در دامنه $f(x)$ و $x=2$ در دامنه $f(x-2)$ نیست که در بازه است آفده نیست

$$D_f = \mathbb{R} - \{0, \pm 2\}$$

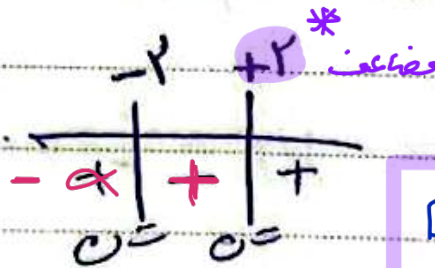
هواره $\Delta < 0 \Rightarrow a > 0 \Rightarrow \boxed{+}$

$$\frac{x^2 - 3x + 2}{x(x+2)(x-2)} \geq 0$$



$$D = (-2, 0) \cup (2, +\infty)$$

$$\sqrt{\frac{x-2}{(x+2)(x-2)(x^2+2)}}$$



۴- الف

(۱, ۵)

$$D_f = \mathbb{R} - [-2, 2]$$

$$D_f = (-2, +\infty) - \{2\}$$

$$f = 2[-x] \Rightarrow [-x] \leq 2 \Rightarrow 2 \leq -x < 2$$

$$\Rightarrow -2 < x \leq -2 \Rightarrow D_f = \mathbb{R} - [-2, -2]$$

$$|x| + x > 0 \Rightarrow x \in \mathbb{R}^+ \quad I \quad \text{الف-1}$$

$$x(x-1)(x+1) \geq 0 \Rightarrow x \in [-1, 0] \cup [1, +\infty) \quad II \quad \text{2}$$

$$D_f = \underline{I \cap II = [1, +\infty)} \quad \checkmark$$

$$x \neq \pm 1 \quad I \quad \text{3}$$

$$|x-2| \geq x^2 \quad \Rightarrow x \in [-2, 1] \quad II \quad \text{4}$$

$$D_f = I \cap II = [-2, -1) \cup (-1, 1) \quad \checkmark$$

$$(x-2)[x-2] \geq 0 \quad \Rightarrow [2, 2) \quad \text{الف-2} \quad \text{5}$$

$$|x-1| [x-2] \geq 0 \Rightarrow [x] \geq 2 \quad \text{6}$$

$$\Rightarrow D_f = [2, +\infty) \cup \{1\} \quad \text{7}$$

$$D_f = [2, +\infty) \cup \{1\} \quad \text{8}$$

$$||x-2|-1| \leq K \quad \text{9}$$

$$K-1 \leq K+1 \quad \times \quad K-1 \leq -1-K \Rightarrow K \leq 0 \quad \text{10}$$

$$K-1 \leq 1-K \rightarrow K \leq 1 \quad \checkmark \quad 1-K \leq K+1 \quad \times \quad \text{11}$$

$$K \leq 1 \quad \text{12}$$

$$D_f = \mathbb{R} - \{\pm 1, -1\} \Rightarrow n \leq 3 \checkmark$$

$\checkmark$ نوع ك - 1
(r)

$$x^2 - 4x + 4 = 0 \rightarrow (x-2)^2 = 0 \Leftrightarrow x = 2$$

$$\left. \begin{array}{l} x > 0 \quad x \neq 1 \\ x > -1 \quad x \neq 0 \end{array} \right\} \xrightarrow{\cap} \underline{D_f = \mathbb{R}^+ - \{1\}}$$

(1, 2) - 4

$$-1 \leq \sqrt{x^2} - 1 \leq 1 \Rightarrow \underbrace{-1 \leq \sqrt{x^2} \leq 1}_{\checkmark}$$

(r) - 10

$$0 \leq \sqrt{x^2} \leq 1 \rightarrow 0 \leq x^2 \leq 1 \Rightarrow x \in \left[\frac{-1}{\sqrt{1}}, \frac{1}{\sqrt{1}} \right]$$

$$1) \quad n+1 > 0 \rightarrow n > -1, \quad n+1 \neq 1 \rightarrow n \neq 0 \quad -9$$

$$2) \quad n > 0, \quad n \neq 1$$

$$\xrightarrow{n} D_f = (0, 1)$$

$$3) \quad \lg \frac{1}{n} > 0 \rightarrow 0 < n < 1$$