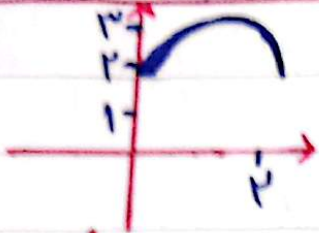


A

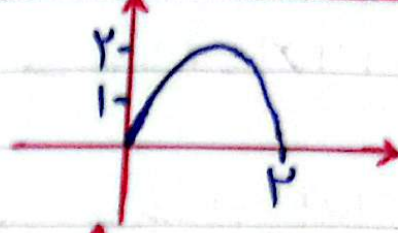
14, 25

مجموعه

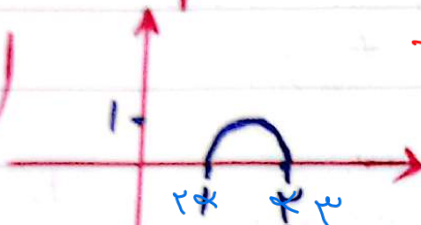
(الف)



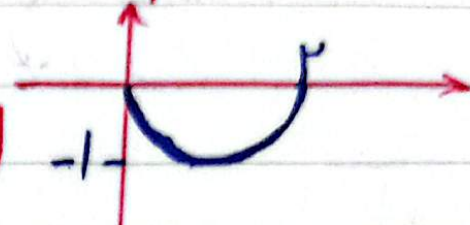
(ب)



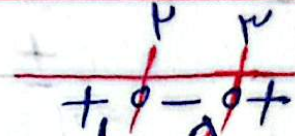
(ج)



(د)

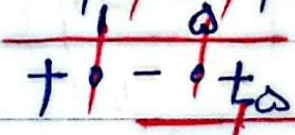


(الف) $(x-2)(x-3) \rightarrow$



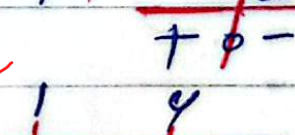
$D = (-\infty, 2) \cup (3, \infty)$

(ب) $(x-1)(x-5) \rightarrow$



$D = (1, 5)$

(ج) $(x+1)(x+5) \rightarrow$



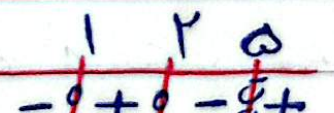
$D = (-\infty, -5) \cup (-1, \infty)$

(د) $(x-4)(x-1) \rightarrow$



$D = [1, 4]$

(الف) $(x-2)(x-1) \rightarrow$



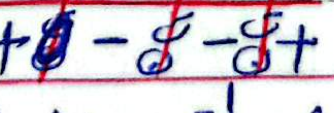
$D = (-\infty, 1) \cup (2, \infty)$

(ب) $(x-5)(x-1) \rightarrow$



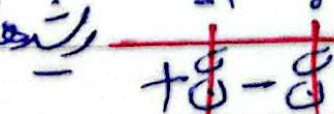
$D = (-\infty, 1) \cup (5, \infty)$

(الف) $(x-1)(x-0) \rightarrow$



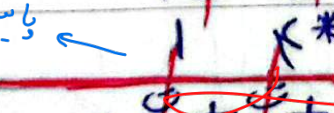
$D = (-\infty, 0) \cup (1, \infty)$

(ب) $(x-1)(x-0) \rightarrow$



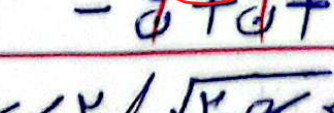
$D = (1, \infty) - \{1\}$

(الف) $(x-1)(x-0) \rightarrow$



$D = (1, \infty) - \{1\}$

(ب) $(x-1)(x-0) \rightarrow$



$D = (1, \infty) - \{1\}$

(الف) $2-x \geq 0 \rightarrow x \leq 2 / \sqrt{x-2} \leq 2 \rightarrow x = [1, 2]$

$\cap \rightarrow D = [-1, 2]$

$D = [-1, 2]$

(ب) $x \geq 2 / \sqrt{x-2} \leq 2 \rightarrow [2, 11] \rightarrow \cap = [2, 11]$

$\cap \rightarrow D = [2, 11]$

$D = [2, 11]$

$$1, \delta \quad 9x^2 \leq 2 \rightarrow -\sqrt{2} \leq 3x \leq \sqrt{2}$$

الف) $4 - 2x^2 \geq 0 \rightarrow x \leq \sqrt{2} \rightarrow D = (-\infty, \sqrt{2}]$
 ب) $3|x| - 9 \geq 0 \rightarrow 3|x| \geq 9 \rightarrow D = [-3, 3]$

الف) $|x| - 3 \neq 0 \rightarrow |x| \neq 3 \rightarrow \mathbb{R} - \{3\}$

ب) $x \geq 0 / x \neq 9 \rightarrow \mathbb{R}^+ - \{9\}$

$\mathbb{R}^+$ شامل صفر نیست

الف) $2 \cos x - 1 \neq 0 \rightarrow 2 \cos x \neq 1$

$\mathbb{R} - \{2k\pi + \frac{\pi}{3}\}$

ب) $2 \sin x \neq -1 \rightarrow \mathbb{R} - \{2k\pi - \frac{\pi}{6}, 2k\pi + \frac{5\pi}{6}\}$

پایین صفر نبوده

ج) $\frac{\sin x + 1}{\cos x - 1} \rightarrow \cos x \neq 1 \rightarrow \mathbb{R} - \{k\pi\}$

ص

د) $4 \sin^2 x - 3 \neq 0 \rightarrow 4 \sin^2 x \neq 3$

$\sin^2 x \neq \frac{3}{4}$

$\mathbb{R} - \{2k\pi + \frac{\pi}{2}, 2k\pi + \frac{3\pi}{2}\}$

$\mathbb{R} - \{2k\pi + \frac{\pi}{2}, 2k\pi + \frac{3\pi}{2}\}$

ه) $2|x-2| - \frac{1}{x} > 0 \rightarrow |x-2| > \frac{1}{x} \rightarrow (-\infty, \frac{1}{x}) \cup (\frac{9}{x}, \infty)$

الف) $4 - 2|x| \geq 0 \rightarrow 2|x| \leq 4 \rightarrow |x| \leq 2 \rightarrow [-2, 2]$

ب) $D = \mathbb{R} - \{0\}$

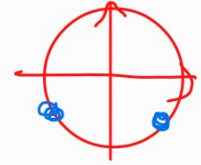
1, \delta

$$\frac{(x-\epsilon)(x+\epsilon)}{(x-1)(x-\epsilon)} \geq 0 \rightarrow \begin{array}{c} -\epsilon \quad 1 \quad \epsilon^* \\ + \quad - \quad + \quad + \end{array}$$

c-k

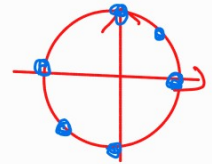
$$D_f = (-\infty, -\epsilon] \cup (1, +\infty) - \{\epsilon\}$$

$$\sin x \neq -\frac{1}{r} \rightarrow D_y = \mathbb{R} - \left\{ \kappa\pi - \frac{\pi}{4}, \kappa\pi + \frac{3\pi}{4} \right\}$$



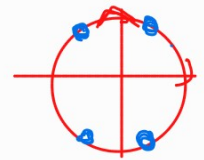
c - \wedge

$$\begin{cases} c \cdot \tan x \neq 1 \\ c \cdot \sin x \neq 0 \\ \sin x \neq 0 \end{cases} \rightarrow D_y = \mathbb{R} - \left\{ \frac{\kappa\pi}{r}, \kappa\pi + \frac{\pi}{r} \right\}$$



c

$$\sin^2 x \neq \frac{r}{\epsilon} \rightarrow \sin x \neq \pm \frac{\sqrt{r}}{r} \rightarrow D_y = \mathbb{R} - \left\{ \kappa\pi \pm \frac{\pi}{r} \right\}$$



c)