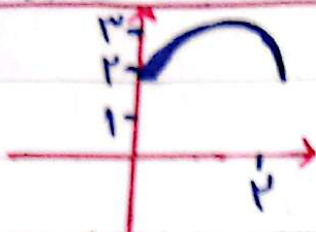


A

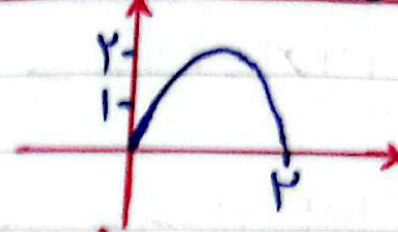
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مجموعه

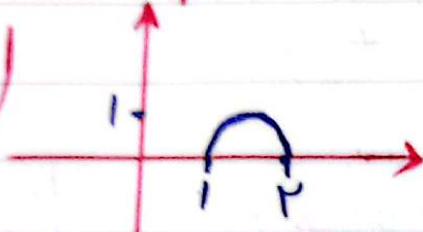
الف)



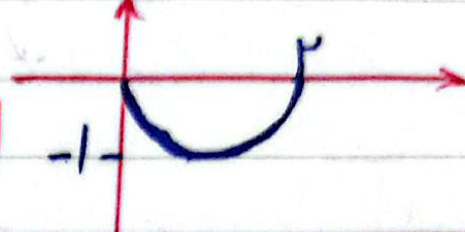
ب)



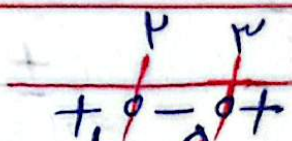
ج)



د)

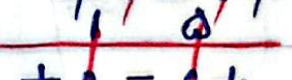


الف) $(x-2)(x-3) \rightarrow$



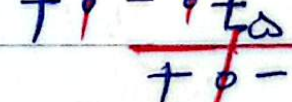
$D = (-\infty, 2) \cup (3, \infty)$

ب) $(x-1)(x-5) \rightarrow$



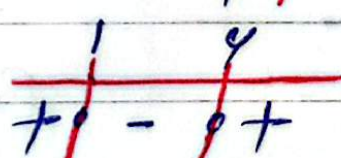
$D = (1, 5)$

ج) $(x+1)(x+5) \rightarrow$



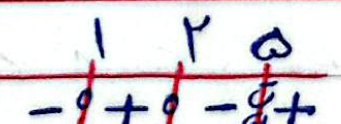
$D = (-\infty, -5] \cup [-1, \infty)$

د) $(x-4)(x-1) \rightarrow$



$D = [1, 4]$

الف) $(x-2)(x-1) \rightarrow$



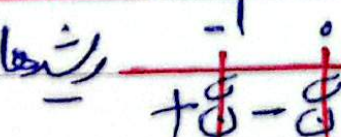
$D = (-\infty, 1) \cup (2, \infty)$

ب) $(x-5)(x-1) \rightarrow$



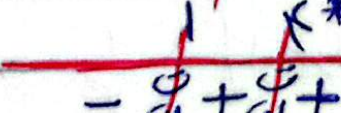
$D = (-\infty, -1] \cup (5, \infty)$

الف) $x^2 - 1 \geq 0 \rightarrow$



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

ب) $x^2 - 1 < 0 \rightarrow$



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

الف) $2-x \geq 0 \rightarrow$

$x \leq 2 / \sqrt{x-2} \leq 2 \rightarrow$

$x = [-1, 2]$

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

ب) $x \geq 2 / \sqrt{x-2} \leq 2 \rightarrow$

$[2, 11] \rightarrow$

$\cap = [2, 11]$

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

الف) $|x| - 2 \neq 0 \rightarrow |x| \neq 2 \rightarrow \mathbb{R} - \{2\}$
 ب) $x \geq 0 / x \neq 9 \rightarrow \mathbb{R}^+ - \{9\}$

الف) $2 \cos x - 1 \neq 0 \rightarrow 2 \cos x \neq 1$
 $\mathbb{R} - \{2k\pi + \frac{\pi}{3}\}$

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

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

د) $k \sin^2 x - 3 \neq 0 \rightarrow k \sin^2 x \neq 3$
 $\sin^2 x \neq \frac{3}{k}$

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

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

الف) $k - 2|x| \geq 0 \rightarrow 2|x| \leq k \rightarrow |x| \leq \frac{k}{2} \rightarrow [-\frac{k}{2}, \frac{k}{2}]$

ب) $D = \mathbb{R}$