

Subject

Date : Year:

Month:

Day:

1w, 2w

فصل پنجم

$$y = \frac{x+1}{15x^2 - 16x + 11x - 10} = \frac{x+1}{15x^2 - 14x + 10} \rightarrow \varepsilon x^2 - 14x + 10 \rightarrow x^2 - 14x + 40$$

$$Df = \mathbb{R} - \left\{ \frac{10}{\varepsilon} \pm \frac{4}{\varepsilon} \pm 1 \right\} \quad (x-10)(x-4)$$

0, 1, 100

$$\frac{10}{\varepsilon} \quad \frac{4}{\varepsilon}$$

$$y = \frac{x+1}{15x^2 - 14x + 10} = \frac{x+1}{15x^2 - 14x + 10} \rightarrow x^2 - 14x + 40$$

$$Df = \mathbb{R} - \left\{ \frac{10}{15} \pm \frac{4}{15} \pm 1 \right\}$$

$$\frac{10}{15} \quad \frac{4}{15} \pm 1$$

$$y = \frac{x+1}{x - \sqrt{15-12x}} = \frac{x+1}{x - \sqrt{15-12x}} \rightarrow x < \frac{15}{12} \rightarrow x - \sqrt{15-12x} \neq 0$$

$$0, 1, 100 \quad x - \sqrt{15-12x}$$

$$Df = (-\infty, \frac{15}{12}] - \left\{ \frac{15}{12} \right\}$$

$$x = -\frac{1}{2}y = \frac{1}{10}$$

$$x \neq \sqrt{15-12x} \rightarrow x^2 = 15-12x \rightarrow x^2 + 12x - 15 = 0 \rightarrow (x+15)(x-1) = 0$$

$$y = \frac{x+1}{x - \sqrt{15-12x}} = \frac{x+1}{x - \sqrt{15-12x}} \rightarrow x < \frac{15}{12} \quad x=1 / x=-15$$

$$x - \sqrt{15-12x} \neq 0 \quad x \neq \sqrt{15-12x} \rightarrow x = \sqrt{15-12x}$$

$$x^2 = 15-12x \rightarrow x^2 + 12x - 15 = 0 \rightarrow (x-1)(x-15) = 0 \quad x=1$$

1, 100

$$Df = \left[\frac{1}{15}, \infty \right) - \left\{ 1, 15 \right\}$$

$$x=15$$

15

$$y = \frac{\sin x}{\cos x - 1} = \frac{\sin x}{\cos x - 1} \rightarrow \cos x \neq 1 \rightarrow \cos x \neq \frac{1}{1} \quad Df = \left[\frac{\pi}{2}, \frac{3\pi}{2} \right]$$

$$(k \in \mathbb{Z})$$

0, 1, 100

1, 100

$$y = \frac{\cos x + 1}{\sin x + 1} = \frac{\cos x + 1}{\sin x + 1} \rightarrow \sin x \neq -\frac{1}{1} \quad x \neq \frac{3\pi}{2} + 2k\pi$$

$$x \neq \frac{3\pi}{2} + 2k\pi$$

$$Df = \left[\frac{\pi}{2}, \frac{3\pi}{2} \right] - \left\{ \frac{3\pi}{2} \right\}$$

$$y = \frac{\tan x + 1}{\cot x - 1} \rightarrow \cos x \neq 0 \quad x \neq \frac{\pi}{2} + k\pi$$

$$0, 1, 100 \quad \cot x - 1 \rightarrow \cot x \neq 0 \quad x \neq k\pi + \frac{\pi}{2} \rightarrow \cot x - 1 \neq 0$$

$$x \neq k\pi + \frac{\pi}{2} \rightarrow \cot x - 1 \neq 0$$

parsian

$$Df = \mathbb{R} - \left\{ k\pi + \frac{\pi}{2} \pm k\pi + \frac{\pi}{2} \right\}$$

$$\tan x \neq 1$$

Siti Gurb

$$y = \frac{\sin x + 1}{\varepsilon \sin x - \mu} \rightarrow \varepsilon \sin x - \mu \neq 0 \rightarrow \sin x \neq \frac{\mu}{\varepsilon} \quad 0, 1, \infty$$

$$Df = 12 - x \mid \sin x = 1 \mid \frac{\mu}{\varepsilon}$$

$$\begin{aligned} & x^{\mu} - a x + d > 0 \\ & (x-1)(x-\mu) > 0 \\ & x=1 \quad x=\mu \end{aligned} \quad Df = \frac{\mu}{+1-1+} \quad Df = \frac{\mu}{(-\infty, \mu) \cup (\mu, +\infty)}$$

$$x^{\mu} - y x + d < 0 \quad Df = (1, 2a)$$

$$\begin{aligned} & (x-1)(x-a) \\ & x=1 \quad x=a \\ & x+y x + d > 0 \end{aligned} \quad Df = \frac{\mu}{+1-1+} \quad Df = \frac{\mu}{(-\infty, -a] \cup [1, +\infty)}$$

$$\begin{aligned} & (x+\mu)(x+\mu) \\ & x=-\mu \quad x=-\mu \\ & x^{\mu} - y x + d > 0 \\ & (x-1)(x-4) \end{aligned} \quad Df = \frac{1}{+1-1+} \quad Df = [1, 2, 4]$$

$$\begin{aligned} & x^{\mu} - \mu x + \mu \\ & x=a \end{aligned} \quad Df = \frac{(x-1)(x-\mu)}{(x-a)} \quad Df = \frac{1}{+1-1+} \quad Df = \frac{\mu}{-1+1-1+}$$

$$Df = (-\infty, 1) \cup (\mu, 2a) \quad 5$$

$$\begin{aligned} & \frac{x^{\mu}-1}{x^{\mu}-y x+a} > 0 \rightarrow \frac{x^{\mu}-1}{(x-1)(x-a)} > 0 \\ & x=1 \end{aligned} \quad Df = \frac{-1}{+1-1-1+} \quad Df = \frac{-1}{+1-1-1+}$$

$$Df = (-\infty, -1] \cup (a, +\infty)$$

$$\begin{aligned} & y = \sqrt{\frac{x^{\mu}-1}{x^{\mu}-1}} \rightarrow \frac{x^{\mu}-1}{x^{\mu}-1} > 0 \\ & x^{\mu}-1 > 0 \rightarrow x^{\mu}=1 \rightarrow x=1 \end{aligned} \quad Df = \frac{1}{+1-1+} \quad Df = [1, 1]$$

$$y = \sqrt{\frac{x^{\mu}-1}{x^{\mu}-1}} \quad Df = 12 - \{+1\}$$

Subject

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مسئله

1, 2, 3

$$y = \log(x^2 - 1)$$

$$x > 0 \text{ و } x \neq 1$$

$$Df = (-\infty, 0) \cup (1, +\infty)$$

$$(x-1)(x-3)$$

$$x^2 \leq x+1$$

$$\log$$

$$10-x$$

$$10-x$$

$$x < 10$$

$$10-x \neq 0$$

$$x \neq 10$$

$$x \neq 10$$

$$x \neq 10$$

$$x \neq 10$$

$$x(x-1)$$

$$y = \frac{x^2 - x}{x^2 + x}$$

$$x^2 + x$$

$$x(x+1)$$

$$x=0$$

$$x=-1$$

مسئله

	-1	0	1
$x^2 - x$	-	+	-
$x^2 + x$	+	-	+
$p(x)$	-	-	+

0, 1, 2, 3

10

$$y = \sqrt{\frac{x - f(x)}{f(x)}}$$

$$\frac{x - f(x)}{f(x)} \geq 0$$

$$x - f(x) = 0$$

$$x = f(x)$$

$$f(x) = 0 \rightarrow x = 1, 9, 10$$

$$x = -1, 9, 10$$

1

$$Df = (-\infty, -1) \cup (1, 9) \cup (10, +\infty)$$

$$Df = (-\infty, -1)$$

20

Subject

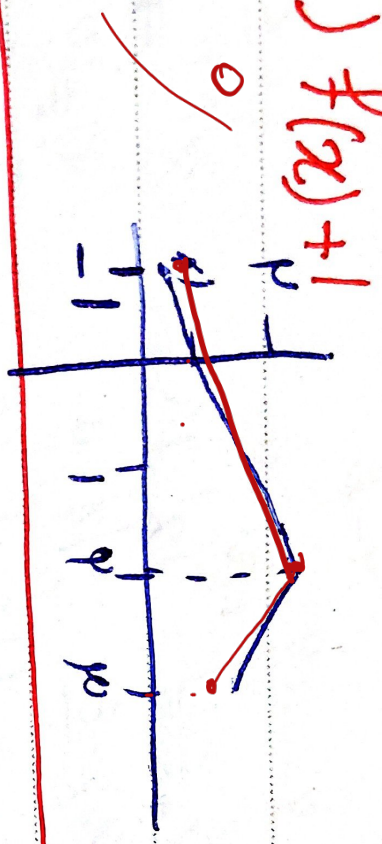
Date : Year

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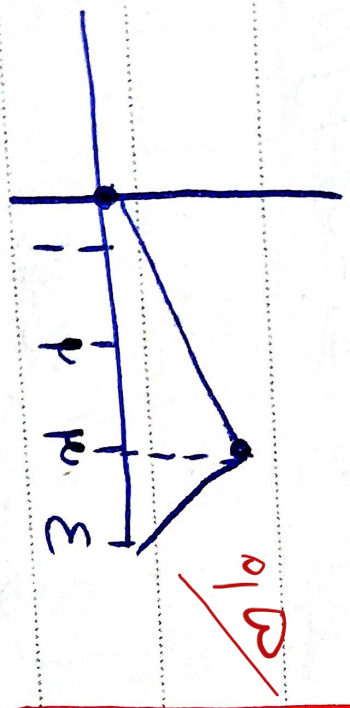
Day:

گلدی، گولڈ

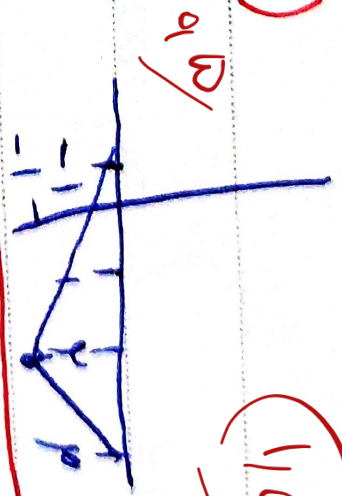
الف) $f(x) + 1$



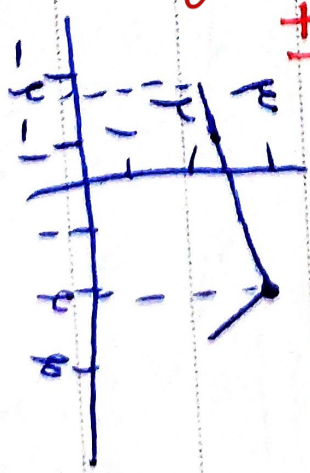
ب) $f(x-1)$



ج) $f(x)$



د) $f(x+1) + 1$



(1/2) 10