

$$y = \sqrt{1-x} = \sqrt{1-x} \geq 0 \quad \text{و} \quad 1 \geq x \rightarrow x \leq 1 \quad \text{و} \quad 1 \geq x \rightarrow x \leq 1 \quad Df = [1, 1]$$

$$y = \sqrt{1-x} = \sqrt{1-x} \geq 0 \rightarrow x \leq 1 \rightarrow 1 \geq x \rightarrow 1 \geq x \rightarrow Df = [1, 1]$$

$$-\sqrt{x-1} \geq -1 \rightarrow \sqrt{x-1} \leq 1 \rightarrow x \leq 2 \rightarrow Df = [1, 2]$$

$$y = \sqrt{1-x^2} \rightarrow 1-x^2 \geq 0 \rightarrow 1-x^2 \geq 0 \rightarrow 1 \geq x^2 \geq \sqrt{1-x^2} \quad Df = [-1, 1]$$

$$y = \sqrt{1-x^2-9} \rightarrow 1-x^2-9 \geq 0 \rightarrow -x^2-8 \geq 0 \rightarrow x^2 \leq -8 \quad Df = \emptyset$$

$$y = \sqrt{\frac{|x|+1}{|x|-1}} \rightarrow \frac{|x|+1}{|x|-1} \geq 0 \rightarrow |x|+1 \geq 0 \rightarrow |x| \geq -1 \quad Df = \mathbb{R} \setminus \{-1, 1\}$$

$$y = \sqrt{\frac{\sqrt{x}+1}{\sqrt{x}-1}} \rightarrow \sqrt{x} \geq 0 \rightarrow x \geq 0 \quad Df = [0, +\infty) \setminus \{1\}$$

$$y = \frac{\sqrt{1-x^2}}{|x|+1} \rightarrow \sqrt{1-x^2} \geq 0 \rightarrow 1-x^2 \geq 0 \rightarrow 1 \geq x^2 \rightarrow x \leq 1 \quad Df = [-1, 1]$$

$$y = \frac{\sqrt{1-x^2}}{|x|-1} \rightarrow \sqrt{1-x^2} \geq 0 \rightarrow 1-x^2 \geq 0 \rightarrow 1 \geq x^2 \rightarrow x \leq 1 \quad Df = (-\infty, -1] \cup [1, +\infty)$$

Subject

Date : Year

Month

Day

چون صفر منفی نیست

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

$$x+|x| \geq 0 \quad D_f = \mathbb{R}^+ - \{0\}$$

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$$y = \frac{1}{\sqrt{x|x|}}$$

$$x|x| > 0 \rightarrow D_f = \mathbb{R}^+ - \{0\}$$

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$$y = \sqrt{\mu - [x]}$$

$$\mu - [x] \geq 0 \quad \mu \geq [x] \quad x \leq \mu$$

$$D_f = (-\infty, \mu)$$

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$$y = \frac{1}{\sqrt{\mu - [x]}}$$

$$\mu - [x] > 0 \quad \mu > [x] \rightarrow D_f = (-\infty, \mu)$$

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$$y = \frac{1}{x[x]}$$

$$x[x] \neq 0 \rightarrow D_f = \mathbb{R} - \{0\}$$

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$$y = \frac{1}{\sqrt{-x[x]}}$$

$$\sqrt{-x[x]} \left. \begin{array}{l} \text{باید مثبت باشد} \\ \text{و منفی نمی تواند باشد} \end{array} \right\} D_f = \emptyset$$

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$$y = \sqrt{\left[x - \frac{1}{\mu}\right] + \left[x + \frac{\mu}{\mu}\right]}$$

$$\left[x - \frac{1}{\mu}\right] + \left[x + \frac{\mu}{\mu}\right] \geq 0$$

$$\left[x + \frac{\mu}{\mu} - 1\right] + \left[x + \frac{\mu}{\mu}\right] \geq 0 \quad \mu \left[x + \frac{\mu}{\mu}\right] - 1 \geq 0 \quad \mu \left[x + \frac{\mu}{\mu}\right] \geq 1$$

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$$y = \sqrt{\left[x - \frac{1}{\mu}\right] + \left[-x + \frac{1}{\mu}\right]}$$

$$\left[x + \frac{\mu}{\mu}\right] \geq \frac{1}{\mu} \rightarrow \left[x + \frac{\mu}{\mu}\right] \geq 1$$

$$\left[x\right] \geq \frac{1}{\mu} \quad D_f = \left[\frac{1}{\mu}, +\infty\right)$$

← این کسب است

$$m \cdot sk\pi + \frac{\pi}{\nu}\}$$

ج)

میتواند

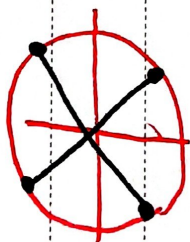
درجی شود

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$$\int \left[\left[x - \frac{1}{p} \right] + \left[-x + \frac{1}{p} \right] \right] \rightarrow x - \frac{1}{p} \in \mathbb{Z} \rightarrow x \in \mathbb{Z} + \frac{1}{p}$$

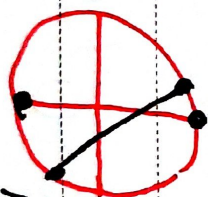
$$Df = \left\{ x \mid x = x + \frac{1}{p} \text{ و } x \in \mathbb{Z} \right\}$$

$$y = \frac{1}{\nu \sin x - 1} = \nu \sin x \neq \frac{1}{\sin x \neq \frac{1}{\nu}} \quad \sin x \neq \pm \sqrt{\frac{\nu}{\nu}}$$



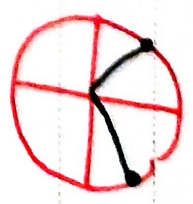
$$R- \left\{ \frac{kx}{p} \pm \frac{x}{c} \right\}$$

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



$$R- \left\{ \frac{kx}{p} + \frac{x}{c} \text{ و } \frac{kx}{p} - \frac{x}{c} \right\}$$

$$y = \sqrt{1 - \sin^2 x} \rightarrow \cos x \quad \text{and} \quad \sin x \rightarrow \sqrt{1 - \cos^2 x}$$



$$Df = \left[\mu x + \frac{x}{q}, \mu x + \frac{qx}{q} \right]$$

$$y = \sqrt{1 - \mu \cos x} \quad \text{and} \quad \mu \cos x \rightarrow \frac{1}{\mu} \cos x$$



$$Df = \left[\mu x + \frac{x}{\mu}, \mu x + \frac{qx}{\mu} \right]$$

Chil Stars