

$$f(-x)(1-x) = f(x)(1+x)$$

~~f(x)~~

④

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$$f(-x) - x f(x) = 2|x| + 1$$

①

$$x = -x \Rightarrow f(x) + x f(-x) = 2|x| + 1$$

$$\Rightarrow * f(-x) = 2|x| + x f(x) + 1$$

$$\Rightarrow f(x) + x (2|x| + x f(x) + 1) = 2|x| + 1$$

$$f(x) + 2x|x| + x^2 f(x) + x = 2|x| + 1$$

$$f(x)(1+x^2) = 2|x| - 2x|x| - x + 1$$

$$\Rightarrow f(x) = \frac{2|x| - 2x|x| - x + 1}{x^2 + 1}$$

$$\Rightarrow f(x) = x^4 - 2x + 2 \Rightarrow f(x^2) = x^8 - 2x^2 + 2$$

$$y(x-1) = x^2 + x + y = 1 + x + y \Rightarrow y = x$$

$$x^y + (1-y)x + y = 0 \Rightarrow x = \frac{y-1 \pm \sqrt{(1-y)^2 - 1 - 2y}}{y}$$

$$= \frac{y-1 \pm \sqrt{y^2-4y-1}}{2} \quad y^2-4y-1 \geq 0$$

$$\frac{9 \pm 1}{r} = -1 \quad \Rightarrow \quad +k - k + \Rightarrow R = 1R - (-1.6V)$$

$$\frac{d}{dx} \left(\frac{1}{2} x^2 - \sigma x + \frac{1}{2} \sigma^2 \right) = \frac{-\Delta}{\epsilon a} \quad \rightarrow \quad - \frac{x \sigma - 1}{1} = -x, 1 \sigma$$

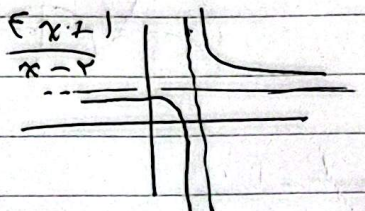
f) $-x^4 + 9x - 2 > 0 \Rightarrow [0, \sqrt[4]{\frac{2}{9}}]$

$$\left[\begin{array}{c|c} 0 & \sqrt{\frac{-x}{-x}} \end{array} \right] \Rightarrow IR = \left[\begin{array}{c|c} 0 & 1 \end{array} \right] \text{ and } y = (0-1) = -1$$

* اگر کسی سال نوید به روز زیر ادیکال $\sqrt{1R} = (0.6 + \infty)$ ع.)

$$2) \quad \text{Col}(A) = [0 \ 0 \ 0] = \{0\}$$

$$2) y = R - \left\{ \frac{a}{c} \right\} = R = R - \left\{ \frac{r}{r} \right\} \quad (2)$$

$$1) \quad \frac{f(x+1)}{x-r} \quad \Rightarrow \quad R = [0, +\infty) - \left\{ \frac{r}{r} \right\}$$


$$2) \quad \sqrt{x^2+r} + \frac{1}{\sqrt{x^2+r}} \Rightarrow R = \left[\frac{1}{r}, +\infty \right)$$

$$3) \quad x^r + r + \frac{1}{x^r+r} - \ln(x^r+r) = r \Rightarrow \frac{1}{x^r+r} = r \Rightarrow \left[\frac{1}{r}, +\infty \right)$$

$$\max(x^r) = +\infty$$

$$x^r - 1 = 0 \Rightarrow x = \pm 1$$

$$\min(x^r) = 0$$

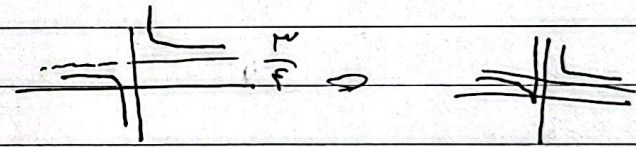
$$\Rightarrow R = \left[\frac{1}{r}, +\infty \right)$$

$$\min(\sin x) = -1$$

$$\max(\sin x) = 1$$

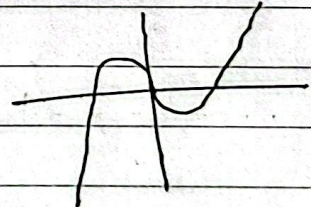
$$\frac{y+r}{-r} = -r$$

$$\frac{y}{-r} = \frac{1}{-r} \Rightarrow \left[-r, -\frac{1}{r} \right]$$

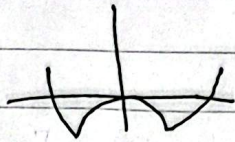
$$y = \left| \frac{rx-1}{rx} \right| \quad \Rightarrow \quad R = \left[\frac{1}{r}, +\infty \right)$$


$$y = \sqrt{\frac{q(x-r)}{f(x-r)}} = \left(\frac{r}{r} \right) \Rightarrow R = \left\{ \frac{r}{r} \right\}$$

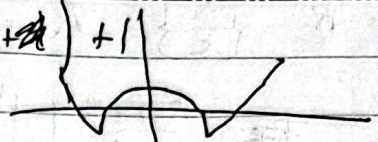
$$-x^r - rx \quad x^r - rx$$

$$\Rightarrow R = \mathbb{R}$$


$$f(x)$$



$$f(x+1)$$



(1)

$$f(x+1)$$

