

کلاس و سرایز هم
تکلیف

تاریخ:

$$\{x\} \rightarrow 0 \rightarrow \dots \rightarrow 1 \rightarrow 2 \rightarrow \dots \rightarrow n$$

$$\frac{1}{n} \left(\frac{1}{n} + \frac{1}{n} + \dots + \frac{1}{n} \right) = \frac{1}{n} \cdot n = 1$$

$$\theta = \frac{1}{n} \left(\frac{1}{n} + \frac{1}{n} + \dots + \frac{1}{n} \right)$$

$$\frac{1}{n} \left(\frac{1}{n} + \frac{1}{n} + \dots + \frac{1}{n} \right) = \frac{1}{n} \cdot n = 1$$

$$(x+y) \cdot (x-y) = x^2 - y^2$$

$$\frac{1}{n} \left(\frac{1}{n} + \frac{1}{n} + \dots + \frac{1}{n} \right) = \frac{1}{n} \cdot n = 1$$

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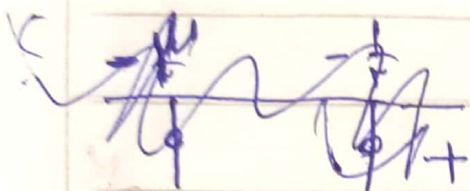
$$1) \quad \begin{cases} |x+1| - |x+3| = 0 \\ x = x \end{cases}$$

$$D = \mathbb{R} - \{-1\}$$

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$$2) \quad |x+1| - |x+3|$$

$$|x+1| - |x+3| \geq 0$$



$$|x+1| - |x+3| \geq 0$$

$$|x+1| \geq |x+3|$$

$$x \geq -1 \quad I$$

$$x \geq -\frac{1}{2} \quad II$$

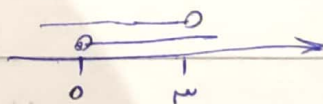
$$x+1 \geq x+3 \quad \text{and} \quad x+1 \geq -(x+3)$$

$$I \cap II = I \rightarrow [-1, +\infty)$$

$$3) \quad \begin{cases} 1 - \log_x x > 0 \Rightarrow 1 > \log_x x \Rightarrow x > x \end{cases}$$

$$x > 0$$

$$D = (0, +\infty) \cap (-\infty, x) = (0, x)$$

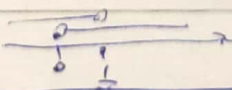


4)

$$5) \quad \begin{cases} 1 - \log_{\frac{1}{x}} x > 0 \Rightarrow 1 > \log_{\frac{1}{x}} x \Rightarrow \frac{1}{x} > x \end{cases}$$

$$x > 0$$

$$D = (0, +\infty) \cap (-\infty, \frac{1}{x}) = (0, \frac{1}{x})$$

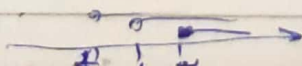


$$6) \quad \begin{cases} \log_{\omega}^{(x-1)} \geq 0 \Rightarrow \log_{\omega}^{(x-1)} \geq 1 \Rightarrow x-1 \geq \omega \Rightarrow x \geq \omega+1 \quad I \end{cases}$$

$$\log_{\omega}^{(x-1)} > 0 \Rightarrow x-1 > 1 \Rightarrow x > 2 \quad II$$

$$x-1 > 0 \Rightarrow x > 1 \quad III$$

$$D = I \cap II \cap III = [\omega+1, +\infty)$$





تاریخ:

موضوع:

الف) $\sqrt{\cos x + 1} > 0 \Rightarrow \cos x > -\frac{1}{2}$ ~~$D = (\frac{\pi}{3}, \frac{5\pi}{3})$~~

$D = [0, \frac{\pi}{3} + \frac{2\pi}{3}) \cup [0, \frac{5\pi}{3} - \frac{2\pi}{3})$ ✓

$\log \frac{n-1}{n+1} \geq 0 \Rightarrow \log^{-1} \geq 1 \Rightarrow n-1 \geq 1 \Rightarrow n \geq 2$ K

$n-1 > 0 \Rightarrow n > 1$ B

$n+1 > 0 \Rightarrow n > -1$ K

$D = K \cap B \cap K = [\frac{\pi}{3}, +\infty)$



✓

~~$x^2 + 2x + 2 - m^2 \geq 0$~~

$\Delta < 0 \Rightarrow 4 - 4(2 - m^2) < 0$

$4 - 8 + 4m^2 < 0$

$4m^2 - 4 < 0 \Rightarrow m < \pm 1$

$-1 < m < 1$

✓