

۲۰ آفرین:

سایه جابجایی

$$f) \frac{|n|+1}{|n|-2} \ln 2 \quad y(b-2)=b+1 \rightarrow y(y-1)=2y+1 \rightarrow \frac{y+1}{y-1} \quad y+1 \geq 0 \quad (1)$$

$$(-\infty, -\frac{1}{2}] \cup (1, \infty) \quad (2)$$

$$g) \frac{n^2+1}{|n|} \quad \frac{n^2+1}{n} \cdot n + \frac{1}{n} \quad (-\infty, -2] \cup (2, \infty) \quad [2, \infty)$$

$$y = \frac{n^2+2n-2-1}{n-2} = \frac{(n+2)(n-1)+1}{n-2} \rightarrow n+2 + \frac{1}{n-2} \quad t = \frac{1}{t} \quad (-\infty, -2] \cup (2, \infty) \quad (2)$$

$$-2-d \quad +2-d$$

$$y = \frac{n^2-n+\frac{1}{2}+\frac{1}{2}}{n^2-n+1} = \frac{(n^2-n+1)+\frac{1}{2}}{n^2-n+1} = 1 + \frac{\frac{1}{2}}{n^2-n+1}$$

$\frac{1}{2} \rightarrow 1-100$
 $100 \rightarrow 1-\frac{1}{100} \approx 1$

$\Delta \rightarrow D, R$
 $R_2 [0, 1]$

$$y = \sqrt{-n^2+d^2-1} \quad n_5 = \frac{-d}{-2} \geq 2 \quad y_5 = d+1-1=2 \quad (-\infty, 2] \cup (2, \infty) \quad (2)$$

$$y = \sqrt{4n^2-4n} \quad n_5 = \frac{1}{2} \geq 2 \quad y_5 = 1-1=0 \quad [-2, \infty)$$

$$\log(n^2-n+1) = \log(0, \infty) = (R) \quad (2) \quad (2)$$

$$\log\left(\frac{n^2+1}{n}\right) = n + \frac{1}{n} \geq 0 \rightarrow \log(1, \infty) \quad [1, \infty)$$

$$y = |2n-2| = |n-1| \quad 1, 2$$

$1 \rightarrow -2$
 $2 \rightarrow 2$
 $2 \rightarrow 2-1$
 $0 \rightarrow -1$
 $-1 \rightarrow -2$

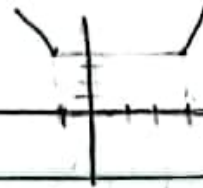
$[-2, \infty)$

s.a.m

Subject:

Date: / /

$$y = |x-2| + |x+1|$$



$$[2, +\infty)$$

(2) (2)

$$|x-2| - |x+1| \leq 1$$

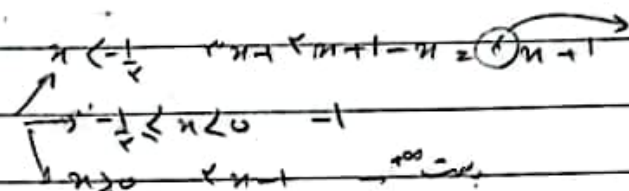
$$\begin{aligned} &\rightarrow x \geq 2 \quad \text{and} \quad x-2-x-1 \leq 1 \quad x \geq -2 \\ &\quad \quad \quad \downarrow \quad \quad \quad \downarrow \\ &\quad \quad \quad x \geq -1 \quad \quad \quad x \geq -\frac{1}{2} \\ &\quad \quad \quad \downarrow \quad \quad \quad \downarrow \\ &\quad \quad \quad -1 \leq x \quad \quad \quad x \leq -2 \end{aligned}$$

$$\rightarrow (-\infty, -2) \cup (-\frac{1}{2}, +\infty)$$

(V)

(2)

$$y = |x-2| + |x+1|$$



$$R = \mathbb{R}$$

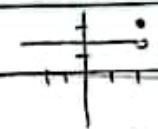
(2)

(A)

$$y = [x], [x-2]$$

$$\begin{aligned} &(-1, 0) \rightarrow -x+2: 2 \\ &(-1, 0) \rightarrow -x+1: 1 \\ &(0, 1) \rightarrow -x+2: 2 \\ &(0, 1) \rightarrow -x+1: 1 \end{aligned}$$

$$x=2, y=2$$



$$R = \{x, y\}$$

$$[-2, 2]$$

(2)

(4)

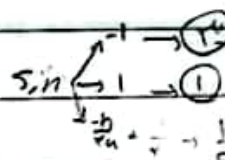
$$y = [x], [x-1]$$

$$\begin{aligned} &(-1, 0) \rightarrow x+2 \\ &(-1, 0) \rightarrow x+1 \\ &(0, 1) \rightarrow x+2 \\ &(0, 1) \rightarrow x+1 \end{aligned}$$



$$[-1, 1]$$

$$y = \sin x - \sin x+1$$

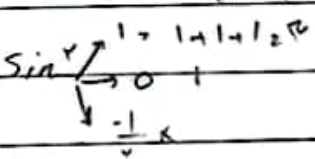


$$[2, 2]$$

(2)

(10)

$$y = \sin x + \sin x+1$$



$$[1, 1]$$