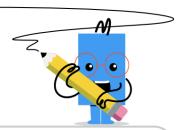


mobius

Function Domain/Range Definition -Interval to Set Builder (Without Union)



What set describes the domain of this interval?

$$(-\infty, 4)$$

$$\{X \in \mathbb{R} | X < 4\}$$

$${}^{\mathsf{B}}_{\{X} \in \mathbb{R} | -8 \le X \le \mathbf{4}\}$$

What set describes the range of this interval?

A
$$\{Y \in \mathbb{R} | 4 \leq Y\}$$
 $\{Y \in \mathbb{R} | Y \leq 8\}$

3

What set describes the domain of this interval?

$${X \in \mathbb{R} | -2 < X < 3}$$

$$\{X \in \mathbb{R}|\}$$

4

$$-2,3)_{A \in \mathbb{R}^{|-2|} \times X \leq 3} (-9,-2]_{A \in \mathbb{R}^{|-9|} \times X \leq -2}$$

What set describes the domain of this interval?

$$\begin{cases} X \in \mathbb{R} | -9 < X \le -2 \end{cases}$$

$$\begin{cases} \mathsf{B} \\ \{X \in \mathbb{R} | -9 < X < -2 \} \end{cases}$$

5

 $4, \infty)_{\{Y \in \mathbb{R} \mid -4 \leq Y\}} \Big($

What set describes the range of this interval?

$$\{Y \in \mathbb{R} | -4 \le Y\}$$

$$\{Y \in \mathbb{R} | -4 < Y\}$$

 $-5, \infty)$

What set describes the domain of this interval?

$${X \in \mathbb{R} | -5 < X}$$

$$\left\{X \in \mathbb{R} | -5 < X < 6\right\}$$

7

What set describes the range of this interval?

$$\{Y \in \mathbb{R} \mid \}$$
 $\{Y \in \mathbb{R} \mid -1 \leq Y\}$

8

$$(-\infty,3)$$

What set describes the domain of this interval?

A B
$$\{X \in \mathbb{R} | X \leq 3\}$$
 $\{X \in \mathbb{R} | X < 3\}$