



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

1

Which set describes the domain of this inequality?

$0 < X$

A	B
$\{X \in \mathbb{R}   0 < X\}$	$\{X \in \mathbb{R}   X < 0\}$

2

Which set describes the domain of this inequality?

$-10 < X$

A	B
$\{X \in \mathbb{R}   -10 \leq X\}$	$\{X \in \mathbb{R}   -10 < X\}$

3

Which set describes the domain of this inequality?

$2 < X$

A	B
$\{X \in \mathbb{R}   X < 2\}$	$\{X \in \mathbb{R}   2 < X\}$

4

Which set describes the domain of this inequality?

$-1 < X < 6$

A	B
$\{X \in \mathbb{R}   -1 \leq X \leq 6\}$	$\{X \in \mathbb{R}   -1 < X < 6\}$

5

Which set describes the domain of this inequality?

$X \leq 1$

A	B
$\{X \in \mathbb{R}   1 \leq X\}$	$\{X \in \mathbb{R}   X \leq 1\}$

6

Which set describes the domain of this inequality?

$4 < X$

A	B
$\{X \in \mathbb{R}   4 < X\}$	$\{X \in \mathbb{R}   X < 4\}$

7

Which set describes the domain of this inequality?

$1 < X \leq 9$

A	B
$\{X \in \mathbb{R}   1 \leq X\}$	$\{X \in \mathbb{R}   1 < X \leq 9\}$

8

Which set describes the domain of this inequality?

$X < 7$

A	B
$\{X \in \mathbb{R}   7 < X\}$	$\{X \in \mathbb{R}   X < 7\}$