



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

1 What interval describes this range?

$$\{Y \in \mathbb{R} \mid -8 < Y\}$$

A	B
$(-8, \infty)$	$[-8, \infty)$

2 What interval describes this range?

$$\{Y \in \mathbb{R} \mid Y < 3\}$$

A	B
$(-\infty, 3)$	$(3, \infty)$

3 What interval describes this range?

$$\{Y \in \mathbb{R} \mid -2 < Y\}$$

A	B
$(-\infty, -2)$	$(-2, \infty)$

4 What interval describes this range?

$$\{Y \in \mathbb{R} \mid -10 < Y\}$$

A	B
$(-10, \infty)$	$(-\infty, -10)$

5 What interval describes this range?

$$\{Y \in \mathbb{R} \mid -6 \leq Y < -3\}$$

A	B
$[-6, -3)$	$[-6, -3]$

6 What interval describes this domain?

$$\{X \in \mathbb{R} \mid -6 \leq X < 9\}$$

A	B
$(-\infty, 9]$	$[-6, 9)$

7 What interval describes this domain?

$$\{X \in \mathbb{R} \mid X < 5\}$$

A	B
$(-\infty, 5)$	$(-\infty, 5]$

8 What interval describes this range?

$$\{Y \in \mathbb{R} \mid -3 < Y \leq 5\}$$

A	B
$(-3, 5]$	$(-3, 5)$