

INTERVAL NOTATION

Open Dots	< or >	()
Closed Dots	≤ or ≥	[]
All Real Numbers	\mathbb{R}	$(-\infty, \infty)$

Set Builder Notation	Graph	Interval Notation
$x > 4$		$(4, \infty)$
$x \geq 4$		$[4, \infty)$
$x < 4$		$(-\infty, 4)$
$x \leq 4$		$(-\infty, 4]$
$-1 < x < 4$		$(-1, 4)$
$-1 \leq x < 4$		$[-1, 4)$
$-1 < x \leq 4$		$(-1, 4]$
$-1 \leq x \leq 4$		$[-1, 4]$
$x < -1$ or $x > 4$		$(-\infty, -1) \cup (4, \infty)$
$x \leq -1$ or $x > 4$		$(-\infty, -1] \cup (4, \infty)$
$x < -1$ or $x \geq 4$		$(-\infty, -1) \cup [4, \infty)$
$x \leq -1$ or $x \geq 4$		$(-\infty, -1] \cup [4, \infty)$