

DOMAIN AND RANGE NOTATION: GUIDED NOTES

Notation

Algebraically	Graphically	Interval Notation
< less than	○ open circle	() parenthesis
> greater than	○ open circle	() parenthesis
≤ less than or equal to	● closed circle	[] bracket
≥ greater than or equal to	● closed circle	[] bracket

Example

Algebraic Notation	Set-Builder Notation	Interval Notation
$x \geq -4$	$\{x \mid x \in \mathbb{R}, x \geq -4\}$	$[-4, \infty)$

Frayer Model

Example

Algebraic Notation

Domain: $x < -2$ or $x \geq 2$

Range: All Real Numbers

DOMAIN & RANGE NOTATION

Interval Notation
reads from left to right

() open interval

[] closed interval

Domain: $(-\infty, -2) \cup [2, \infty)$

Range: $(-\infty, \infty)$

Set Notation
 \in is an element of
 \mathbb{R} the set of real numbers

Domain: $\{x \mid x \in \mathbb{R}, x < -2 \text{ or } x \geq 2\}$

Range: $\{y \mid y \in \mathbb{R}\}$