## **Inequalities and Interval Notation**

Inequality Graph Interval Notation

 $x \geq 2$ 

Brackets [ ] indicate including the endpoint

Set

**Notation** 

$$x \le 2$$
  $(-\infty, 2]$   $\{x \mid x \le 2\}$ 

$$x < 2$$
  $(-\infty, 2)$   $\{x \mid x < 2\}$ 

$$2 < x \le 5 \qquad \frac{1}{-1} \quad 0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \qquad (2,5] \qquad \left\{ x \mid 2 < x \le 5 \right\}$$