

Section 2.7a: Graphing Linear Inequalities

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"I can graph inequalities on a number line."

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Graphing Inequalities on the number line

Example

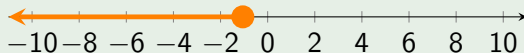
$<$ and $>$ use hollow points and are the same as $($ and $)$



$$(0, \infty) \text{ or } 0 < x$$

Example

\leq and \geq use solid points and are the same as $[$ and $]$

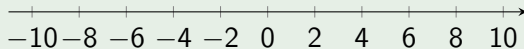


$$(-\infty, -1] \text{ or } x \leq -1$$

We Do 1:

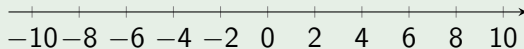
Example

Graph $x > 2$



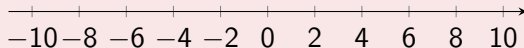
Example

Graph $[2, \infty)$

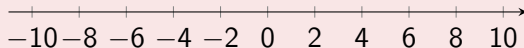


You Do 1:

You Do 1a

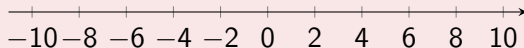
Graph $x < 4$ 

You Do 1b

Graph $[-2, \infty)$ 

You Do 2:

You Do 2a

Graph $x \geq 3$ 

You Do 2b

Graph $(-\infty, \frac{3}{4})$ 