

## Solve & Graph Compound Inequalities

1. Solve each compound inequality for  $x$ , and graph the solution on a number line.

a)  $10 > 3x - 2$  or  $x = 4$

b)  $x - 2 < 4$  or  $x - 2 > 4$

c)  $x - 2 \leq 4$  and  $x - 2 \geq 4$

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1. Solve each compound inequality for  $x$ , and graph the solution on a number line.

a)  $10 > 3x - 2$  or  $x = 4$

$$x < 4 \text{ or } x = 4$$

$$\rightarrow x \leq 4$$



b)  $x - 2 < 4$  or  $x - 2 > 4$

$$x < 6 \text{ or } x > 6$$

$$\rightarrow x \neq 6$$



c)  $x - 2 \leq 4$  and  $x - 2 \geq 4$

$$x = 6$$

