

Intervals

Solve:

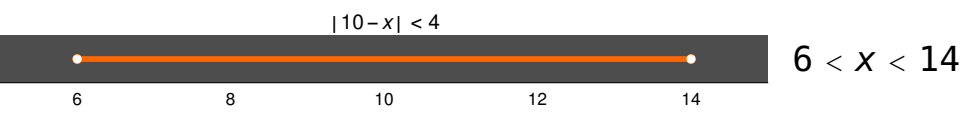
$$|10 - x| < 4$$

$$-4 < 10 - x < 4$$

$$-4 - (10) < -x < 4 - (10)$$

$$-14 < -x < -6$$

Divide each side by -1 and flip the inequalities



Solve:

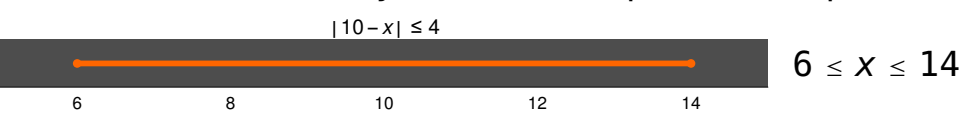
$$|10 - x| \leq 4$$

$$-4 \leq 10 - x \leq 4$$

$$-4 - (10) \leq -x \leq 4 - (10)$$

$$-14 \leq -x \leq -6$$

Divide each side by -1 and flip the inequalities



Solve:

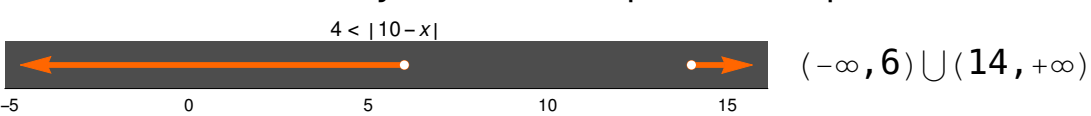
$$4 < |10 - x|$$

$$4 < 10 - x \text{ or } 10 - x < -4$$

$$4 - (10) < -x \text{ or } -x < -4 - (10)$$

$$-6 < -x \text{ or } -x < -14$$

Divide each side by -1 and flip the inequalities



Solve:

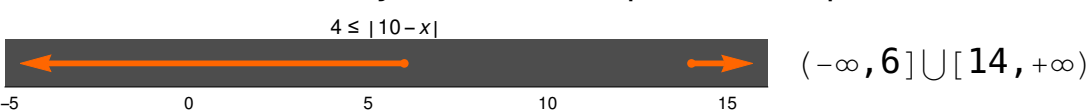
$$4 \leq |10 - x|$$

$$4 \leq 10 - x \text{ or } 10 - x \leq -4$$

$$4 - (10) \leq -x \text{ or } -x \leq -4 - (10)$$

$$-6 \leq -x \text{ or } -x \leq -14$$

Divide each side by -1 and flip the inequalities



Solve:

$$|10 - x| = 4$$

$$-4 = 10 - x \text{ or } 10 - x = 4$$

$$-4 - (10) = -x \text{ or } -x = 4 - (10)$$

$$-14 = -x \text{ or } -x = -6$$

Divide each side by -1

