

Intervals

Solve:

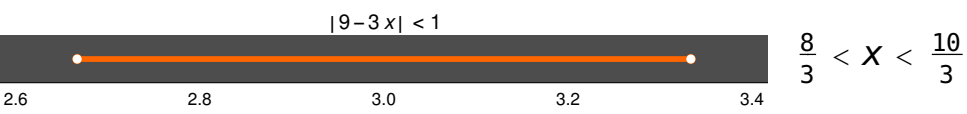
$$|9 - 3x| < 1$$

$$-1 < 9 - 3x < 1$$

$$-1 - (9) < -3x < 1 - (9)$$

$$-10 < -3x < -8$$

Divide each side by -3 and flip the inequalities



Solve:

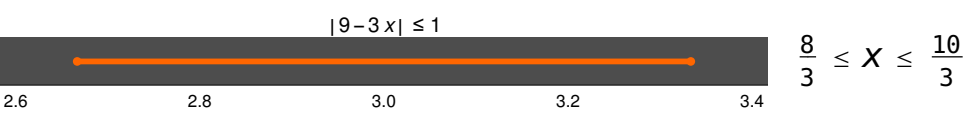
$$|9 - 3x| \leq 1$$

$$-1 \leq 9 - 3x \leq 1$$

$$-1 - (9) \leq -3x \leq 1 - (9)$$

$$-10 \leq -3x \leq -8$$

Divide each side by -3 and flip the inequalities



Solve:

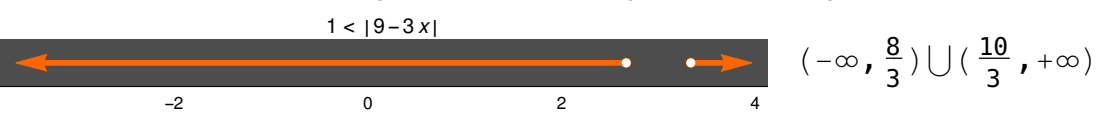
$$1 < |9 - 3x|$$

$$1 < 9 - 3x \text{ or } 9 - 3x < -1$$

$$1 - (9) < -3x \text{ or } -3x < -1 - (9)$$

$$-8 < -3x \text{ or } -3x < -10$$

Divide each side by -3 and flip the inequalities



Solve:

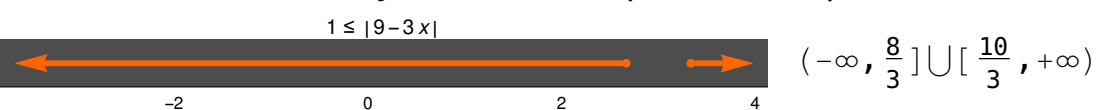
$$1 \leq |9 - 3x|$$

$$1 \leq 9 - 3x \text{ or } 9 - 3x \leq -1$$

$$1 - (9) \leq -3x \text{ or } -3x \leq -1 - (9)$$

$$-8 \leq -3x \text{ or } -3x \leq -10$$

Divide each side by -3 and flip the inequalities



Solve:

$$|9 - 3x| = 1$$

$$-1 = 9 - 3x \text{ or } 9 - 3x = 1$$

$$-1 - (9) = -3x \text{ or } -3x = 1 - (9)$$

$$-10 = -3x \text{ or } -3x = -8$$

Divide each side by -3

