

7. Solve the inequality  $-9 < 6x - 6 < 9$

express your solution sets using interval notation.

$$\left[-\frac{1}{2}, \frac{5}{2}\right]$$

$$\left(-\infty, -\frac{1}{2}\right) \cup \left(\frac{5}{2}, +\infty\right)$$

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**Solution**

**Intervals**

Solve:

$$|6x - 6| + 1 < 10$$

$$|6x - 6| < 9$$

$$-9 < 6x - 6 < 9$$

$$-9 - (-6) < 6x < 9 - (-6)$$

$$-3 < 6x < 15$$

Divide each side by 6

$$|6x - 6| + 1 < 10$$



$$-\frac{1}{2} < x < \frac{5}{2}$$