9. Solve the inequalities |9x - 10| + 4 < 9 express your solution sets using interval notation.

$$(-\infty, \frac{5}{9}) \cup (\frac{5}{3}, +\infty)$$

$$(\frac{5}{9}, \frac{5}{3})$$

$$(-\infty, \frac{5}{9}) \cup (\frac{5}{3}, +\infty)$$
Solution

Intervals

Solve:

$$|9 x - 10| + 4 < 9$$

 $|9 x - 10| < 5$
 $-5 < 9 x - 10 < 5$

-5-(-10)<9 *x*<5-(-10) 5<9 *x*<15

|9x-10|+4<9

$$\frac{5}{9} < X < \frac{5}{3}$$