1. Solve the inequalities $|9x-9|+3 \le 10$
express your solution sets using interval notation.

$(\frac{2}{9}, \frac{16}{9})$

$(-\infty, \frac{2}{9}) \cup (\frac{16}{9}, +\infty)$

$[\frac{2}{9}, \frac{16}{9}]$

$(-\infty, \frac{2}{9}] \cup [\frac{16}{9}, +\infty)$

Solution

Intervals

Solve:

$|9x-9|+3 \le 10$

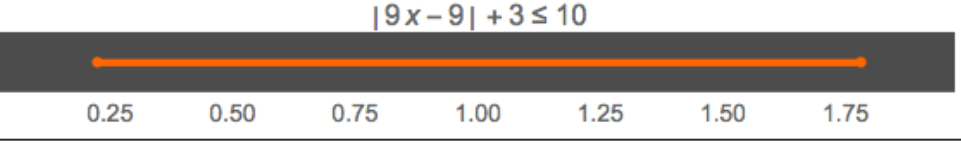
$|9x-9| \le 7$

$-7 \leqslant 9x-9 \leqslant 7$

$-7-(-9) \leqslant 9x \leqslant 7-(-9)$

$2 \leqslant 9x \leqslant 16$

Divide each side by 9



$\frac{2}{9} \le x \le \frac{16}{9}$