6. Solve the inequalities $|10x+9|+3 \le 6$
express your solution sets using interval notation.

$(-\frac{6}{5}, -\frac{3}{5})$

$(-\infty, -\frac{6}{5}) \cup (-\frac{3}{5}, +\infty)$

$[-\frac{6}{5}, -\frac{3}{5}]$

$(-\infty, -\frac{6}{5}] \cup [-\frac{3}{5}, +\infty)$

Solution

Intervals

Solve:

$|10x+9|+3 \le 6$

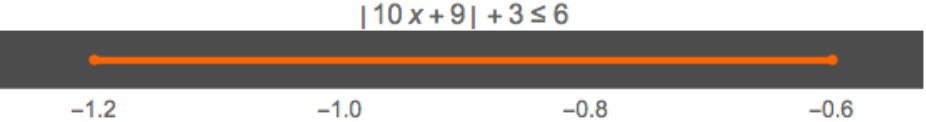
$|10x+9| \le 3$

$-3 \leqslant 10x+9 \leqslant 3$

$-3-(9) \leqslant 10x \leqslant 3-(9)$

$-12 \leqslant 10x \leqslant -6$

Divide each side by 10



$-\frac{6}{5} \le x \le -\frac{3}{5}$