5. Solve the inequalities $7|x|+2 \leq 5$
express your solution sets using interval notation.

$(-\frac{3}{7}, \frac{3}{7})$

$(-\infty, -\frac{3}{7}) \cup (\frac{3}{7}, +\infty)$

$[-\frac{3}{7}, \frac{3}{7}]$

$(-\infty, -\frac{3}{7}] \cup [\frac{3}{7}, +\infty)$

Solution

Intervals

Solve:

$7|x|+2 \leq 5$

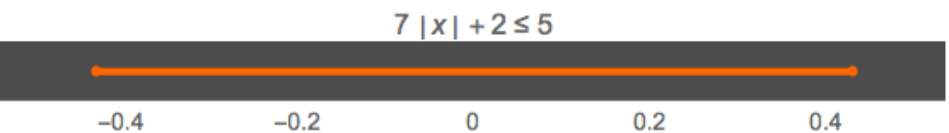
$7|x| \leq 3$

$-3 \leqslant 7x \leqslant 3$

$-3-(0) \leqslant 7x \leqslant 3-(0)$

$-3 \leqslant 7x \leqslant 3$

Divide each side by 7



$-\frac{3}{7} \leq x \leq \frac{3}{7}$