7. Solve the inequalities $|5x-1|+1 \le 6$
express your solution sets using interval notation.

$(-\frac{4}{5}, \frac{6}{5})$

$(-\infty, -\frac{4}{5}) \cup (\frac{6}{5}, +\infty)$

$[-\frac{4}{5}, \frac{6}{5}]$

$(-\infty, -\frac{4}{5}] \cup [\frac{6}{5}, +\infty)$

Solution

Intervals

Solve:

$|5x-1|+1 \le 6$

$|5x-1| \le 5$

$-5 \leqslant 5x-1 \leqslant 5$

$-5-(-1) \leqslant 5x \leqslant 5-(-1)$

$-4 \leqslant 5x \leqslant 6$

Divide each side by 5

$-\frac{4}{5} \le x \le \frac{6}{5}$