7. Solve the inequalities $|5x-6|+2<9$
express your solution sets using interval notation.

$[-\frac{1}{5},\frac{13}{5}]$

$(-\infty,-\frac{1}{5})\cup(\frac{13}{5},+\infty)$

$(-\frac{1}{5},\frac{13}{5})$

$(-\infty,-\frac{1}{5}]\cup[\frac{13}{5},+\infty)$

Solution

Intervals

Solve:

$|5x-6|+2<9$

$|5x-6|<7$

$-7<5x-6<7$

$-7-(-6)<5x<7-(-6)$

$-1<5x<13$

Divide each side by 5

$-\frac{1}{5}<x<\frac{13}{5}$