1. Solve the inequalities $|7x+5|+2<8$
express your solution sets using interval notation.

$[-\frac{11}{7},\frac{1}{7}]$

$(-\infty,-\frac{11}{7})\cup(\frac{1}{7},+\infty)$

$(-\frac{11}{7},\frac{1}{7})$

$(-\infty,-\frac{11}{7}]\cup[\frac{1}{7},+\infty)$

Solution

Intervals

Solve:

$|7x+5|+2<8$

$|7x+5|<6$

$-6<7x+5<6$

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

$-11<7x<1$

Divide each side by 7

$-\frac{11}{7}<x<\frac{1}{7}$