1. Solve the inequalitie $-8<7-7x<8$
express your solution sets using interval notation.

$[-\frac{1}{7},\frac{15}{7}]$

$(-\infty,-\frac{1}{7})\bigcup(\frac{15}{7},+\infty)$

$(-\frac{1}{7},\frac{15}{7})$

$(-\infty,-\frac{1}{7}]\bigcup[\frac{15}{7},+\infty)$

Solution

Intervals

Solve:

$|7-7x|+1<9$

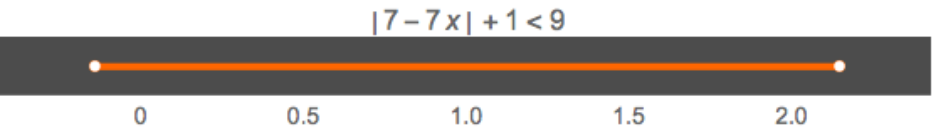
$|7-7x|<8$

$-8<7-7x<8$

$-8-(7)<-7x<8-(7)$

$-15<-7x<1$

Divide each side by -7 and flip the inequalities



$-\frac{1}{7}<x<\frac{15}{7}$