5. Solve the inequalitie $-6<3-3x<6$
express your solution sets using interval notation.

$[-1,3]$

$(-\infty,-1)\cup(3,+\infty)$

$(-1,3)$

$(-\infty,-1]\cup[3,+\infty)$

Solution

Intervals

Solve:

$|3-3x|+3<9$

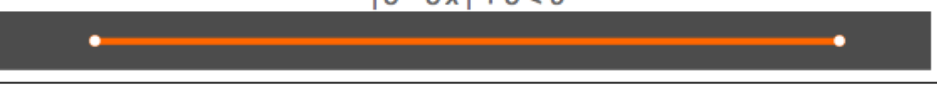
$|3-3x|<6$

$-6<3-3x<6$

$-6-(3)<-3x<6-(3)$

$-9<-3x<3$

Divide each side by -3 and flip the inequalities



$-1<x<3$