9. Solve the inequalitie $-3<2-5x<3$
express your solution sets using interval notation.

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

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

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

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

Solution

Intervals

Solve:

$|2-5x|+3<6$

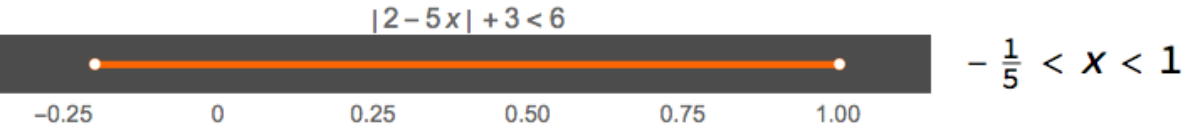
$|2-5x|<3$

$-3<2-5x<3$

$-3-(2)<-5x<3-(2)$

$-5<-5x<1$

Divide each side by -5 and flip the inequalities



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