8. Solve the inequalitie $-2<2x-6<2$
express your solution sets using interval notation.

$[2,4]$

$(-\infty,2)\cup(4,+\infty)$

$(2,4)$

$(-\infty,2]\cup[4,+\infty)$

Solution

Intervals

Solve:

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

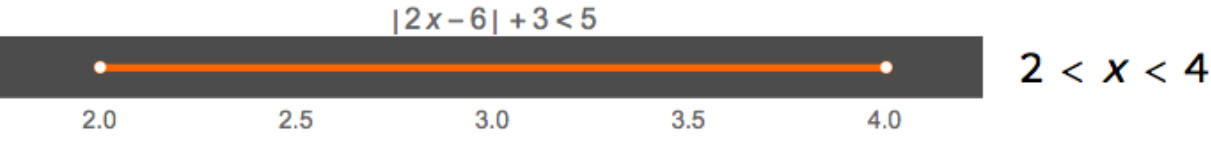
$|2x-6|<2$

$-2<2x-6<2$

$-2-(-6)<2x<2-(-6)$

$4<2x<8$

Divide each side by 2



$2 < x < 4$