8. Solve the inequalitie $-6<2x+7<6$
express your solution sets using interval notation.

$[-\frac{13}{2},-\frac{1}{2}]$

$(-\infty,-\frac{13}{2})\cup(-\frac{1}{2},+\infty)$

$(-\frac{13}{2},-\frac{1}{2})$

$(-\infty,-\frac{13}{2}]\cup[-\frac{1}{2},+\infty)$

Solution

Intervals

Solve:

$|2x+7|+1<7$

$|2x+7|<6$

$-6<2x+7<6$

$-6-(7)<2x<6-(7)$

$-13<2x<-1$

Divide each side by 2

$-\frac{13}{2}<x<-\frac{1}{2}$