5. Solve the inequalities $|6x+7|+1<7$
express your solution sets using interval notation.

$[-\frac{13}{6},-\frac{1}{6}]$

$(-\infty,-\frac{13}{6})\cup(-\frac{1}{6},+\infty)$

$(-\frac{13}{6},-\frac{1}{6})$

$(-\infty,-\frac{13}{6}]\cup[-\frac{1}{6},+\infty)$

Solution

Intervals

Solve:

$|6x+7|+1<7$

$|6x+7|<6$

$-6<6x+7<6$

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

$-13<6x<-1$

Divide each side by 6

$-\frac{13}{6}<x<-\frac{1}{6}$