4. Solve the inequalitie $-1<6x-8<1$
express your solution sets using interval notation.

$[\frac{7}{6},\frac{3}{2}]$

$(-\infty,\frac{7}{6})\cup(\frac{3}{2},+\infty)$

$(\frac{7}{6},\frac{3}{2})$

$(-\infty,\frac{7}{6}]\cup[\frac{3}{2},+\infty)$

Solution

Intervals

Solve:

$|6x-8|+4<5$

$|6x-8|<1$

$-1<6x-8<1$

$-1-(-8)<6x<1-(-8)$

$7<6x<9$

Divide each side by 6

$|6x-8|+4<5$

$\frac{7}{6}<x<\frac{3}{2}$