5. Solve the inequalities $|5-6x|+3<7$
express your solution sets using interval notation.

$[\frac{1}{6},\frac{3}{2}]$

$(-\infty,\frac{1}{6})\cup(\frac{3}{2},+\infty)$

$(\frac{1}{6},\frac{3}{2})$

$(-\infty,\frac{1}{6}]\cup[\frac{3}{2},+\infty)$

Solution

Intervals

Solve:

$|5-6x|+3<7$

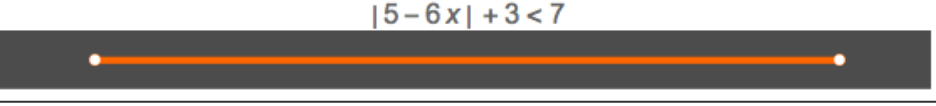
$|5-6x|<4$

$-4<5-6x<4$

$-4-(5)<-6x<4-(5)$

$-9<-6x<-1$

Divide each side by -6 and flip the inequalities



$\frac{1}{6}<x<\frac{3}{2}$