3. Solve the inequalitie $-2<8-8x<2$

express your solution sets using interval notation.

$[\frac{3}{4},\frac{5}{4}]$

$(-\infty,\frac{3}{4})\cup(\frac{5}{4},+\infty)$

$(\frac{3}{4},\frac{5}{4})$

$(-\infty,\frac{3}{4}]\cup[\frac{5}{4},+\infty)$

Solution

Intervals

Solve:

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

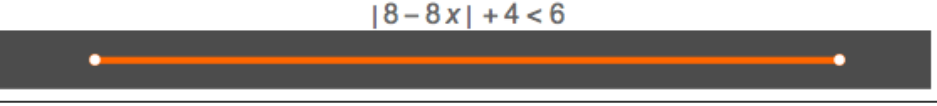
$|8-8x|<2$

$-2<8-8x<2$

$-2-(8)<-8x<2-(8)$

$-10<-8x<-6$

Divide each side by -8 and flip the inequalities



$\frac{3}{4}<x<\frac{5}{4}$