2. Solve the inequalitie -4<5-9 x<4 express your solution sets using interval notation.

Solution

Intervals

|5 - 9x| < 4

-4<5-9 x<4

|5-9x|+2<6

$$-4-(5)<-9 \ x<4-(5)$$

 $-9<-9 \ x<-1$

Divide each side by -9 and flip the inequalities |5-9x|+2<6

$$\frac{1}{9} < X < 1$$