4. Solve the inequalitie $-8<9-5 \ x<8$ express your solution sets using interval notation.

$$\left[\left(\frac{1}{5}, \frac{17}{5}\right]\right]$$

$$\left(-\infty, \frac{1}{5}\right) \cup \left(\frac{17}{5}, +\infty\right)$$

$$\left(\frac{1}{5}, \frac{17}{5}\right)$$

$$\left(-\infty, \frac{1}{5}\right] \cup \left[\frac{17}{5}, +\infty\right)$$

Solution

Intervals

Solve:

$$|9-5x|<8$$

-8<9-5x<8
-8-(9)<-5x<8-(9)

|9-5x|+2<10

$$-17 < -5 \times < -1$$

Divide each side by -5 and flip the inequalities

$$\frac{1}{5} < X < \frac{17}{5}$$