4. Solve the inequalities |3x-1|+1<10 express your solution sets using interval notation.

$$\left[-\frac{8}{3},\frac{10}{3}\right]$$

$$(-\infty, -\frac{8}{3}) \bigcup (\frac{10}{3}, +\infty)$$

$$(-\frac{8}{3},\frac{10}{3})$$

$$(-\infty, -\frac{8}{3}] \bigcup [\frac{10}{3}, +\infty)$$

## Solution

## Intervals

Tillei vats

Solve:

$$|3 x - 1| + 1 < 10$$
  
 $|3 x - 1| < 9$ 

$$-9 < 3 \ x - 1 < 9$$
  
 $-9 - (-1) < 3 \ x < 9 - (-1)$ 

|3x-1|+1<10

 $-\frac{8}{3} < X < \frac{10}{3}$