4. Solve the inequalitie  $-3<9 \ x + 9<3$  express your solution sets using interval notation.

$$\left[-\frac{4}{3}, -\frac{2}{3}\right]$$

$$(-\infty, -\frac{4}{3}) \cup (-\frac{2}{3}, +\infty)$$

$$\left(-\frac{7}{3},-\frac{2}{3}\right)$$

$$(-\infty, -\frac{4}{3}] \bigcup [-\frac{2}{3}, +\infty)$$

## Solution

## Intervals

Solve:

$$|9 x + 9| + 3 < 6$$
  
 $|9 x + 9| < 3$ 

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

$$-12 < 9 \times < -6$$

Divide each side by 9

$$|9x+9|+3<6$$

$$-\frac{4}{3} < X < -\frac{2}{3}$$