

3. Solve the inequality $-3 < 3x + 3 < 3$

express your solution sets using interval notation.

$$[-2, 0]$$

$$(-\infty, -2) \cup (0, +\infty)$$

$$(-2, 0)$$

$$(-\infty, -2] \cup [0, +\infty)$$

Solution

Intervals

Solve:

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

$$|3x + 3| < 3$$

$$-3 < 3x + 3 < 3$$

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

$$-6 < 3x < 0$$

Divide each side by 3

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

$$-2 < x < 0$$