5. Solve the inequalities $9 \le 1 + |3x + 3|$ express your solution sets using interval notation.

$$(-\frac{11}{3},\frac{5}{3})$$

$$[-\frac{11}{3},\frac{5}{3}]$$

$$(-\infty,-\frac{11}{3}] \cup [\frac{5}{3},+\infty)$$

$$(-\infty,-\frac{11}{3}) \cup (\frac{5}{3},+\infty)$$
Solution

Intervals

 $5 \le 3 x \text{ or } 3 x \le -11$

 $8-(3) \le 3 x \text{ or } 3 x \le -8-(3)$

 $8 \le 3 \times x + 3$ or $3 \times x + 3 \le -8$

 $9 \le |3x+3|+1$











 $X \le -\frac{11}{3} \text{ or } X \ge \frac{5}{3}$