9. Solve the inequalitie $-4 \le 2x + 1 \le 4$ express your solution sets using interval notation.

$$(-\frac{5}{2},\frac{3}{2})$$

$$(-\infty,-\frac{5}{2})\cup(\frac{3}{2},+\infty)$$

$$[-\frac{5}{2},\frac{3}{2}]$$

$$(-\infty, -\frac{5}{2}] \bigcup [\frac{3}{2}, +\infty)$$

Solution

Intervals

$$|2 x + 1| + 2 \le 6$$

 $|2 x + 1| \le 4$

Solve:

$$-4 \leqslant 2 \times + 1 \leqslant 4$$

$$-4-(1) \le 2 x \le 4-(1)$$

 $-5 \le 2 x \le 3$

$$|2x+1|+2 \le 6$$