

Let's try a few more examples

$$|x+8| > 1 \quad \text{"distance greater than 1"}$$

$$x+8 < -1 \quad \text{or} \quad x+1 > 1 \quad -1 \leftarrow \quad \text{and} \quad 1 \rightarrow$$

$$\boxed{x < -9} \quad \text{or} \quad \boxed{x > 0}$$

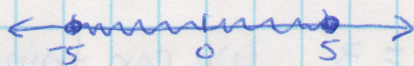
$$|2x+3| \leq 5 \quad \text{"distance less than or equal to 5"}$$

$$2x+3 \geq -5 \quad \text{and} \quad 2x+3 \leq 5 \quad A \geq -5 \quad \text{and} \quad A \leq 5$$

$$2x \geq -8 \quad \text{and} \quad 2x \leq 2$$

$$x \geq -4 \quad \text{and} \quad x \leq 1$$

$$\text{So } \boxed{-4 \leq x \leq 1}$$



CW. Pg 305 (5-17) all

H.W. Pg 305-306 (18-48 Evens)