

Solve, write your answer in interval notation and graph the solution set.

14a. $|5y - 2| < 13$

14b. $|x + 1| \geq 5$

Solution:

14a $|5y - 2| < 13$

$$-13 < 5y - 2 < 13$$

$$-13 + 2 < 5y < 13 + 2$$

$$-11 < 5y < 15$$

$$-\frac{11}{5} < y < 3$$

$$y \in (-0.22, 3)$$



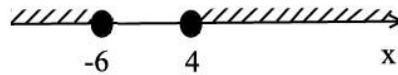
Answer: $y \in (-0.22, 3)$

14b. $|x + 1| \geq 5$

$$\begin{cases} x + 1 \geq 5 \\ x + 1 \leq -5 \end{cases}$$

$$\begin{cases} x \geq 4 \\ x \leq -6 \end{cases}$$

$$x \in (-\infty, -6] \cup [4, +\infty)$$



Answer: $x \in (-\infty, -6] \cup [4, +\infty)$