

Question

$$|3x| < -1$$

$$\left[\begin{array}{l} \left\{ \begin{array}{l} x \geq 0 \\ 3x < -1 \end{array} \right. \\ \left\{ \begin{array}{l} x < 0 \\ 3x > 1 \end{array} \right. \end{array} \right. \Rightarrow \left[\begin{array}{l} \left\{ \begin{array}{l} x \geq 0 \\ x < -\frac{1}{3} \end{array} \right. \\ \left\{ \begin{array}{l} x < 0 \\ 3 > \frac{1}{3} \end{array} \right. \end{array} \right. \Rightarrow x \in \emptyset.$$

Answer: $x \in \emptyset$.

Solution set: there is no any solution.

