

Day 34

Explain how to change the equation  $y = |x|$  to translate the graph vertically. Explain how to change the equation  $y = |x|$  to translate the graph horizontally.

**Answer Key**

Day 34

To move the graph vertically, we can add (to move up) or subtract (to move down) outside of the absolute value signs,  $y = |x| + k$  or  $y = |x| - k$  .

To move the graph horizontally, we can add (to move left) or subtract (to move right) inside the absolute value signs,  $y = |x + k|$  or  $y = |x - k|$  .