

Graphing Calculator Lesson Opener

For use with pages 353–358

In Questions 1–4, graph each equation using a standard viewing window.

1. Enter the equation $y = |x - 1|$ into your calculator.
 - a. Estimate the x -intercept of the graph.
 - b. Use the *Table* feature to check your estimate.
 - c. Substitute the x -intercept into the equation $|x - 1| = 0$.
What do you notice?
2. Enter the equation $y = |x| - 1$ into your calculator.
 - a. Estimate the x -intercepts of the graph.
 - b. Use the *Table* feature to check your estimate.
 - c. Substitute the x -intercepts into the equation $|x| - 1 = 0$.
What do you notice?
3. Enter the equation $y = |2x|$ into your calculator.
 - a. Estimate the x -intercept of the graph.
 - b. Use the *Table* feature to check your estimate.
 - c. Substitute the x -intercept into the equation $|2x| = 0$.
What do you notice?
4. Enter the equation $y = |2x| - 2$ into your calculator.
 - a. Estimate the x -intercepts of the graph.
 - b. Use the *Table* feature to check your estimate.
 - c. Substitute the x -intercepts into the equation $|2x| - 2 = 0$.
What do you notice?