



8.3

Technology Activity

GRAPHING CALCULATOR

Finding Slope

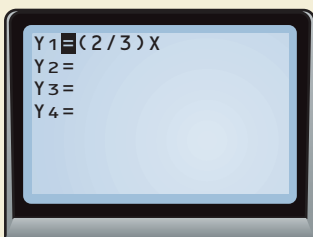
GOAL Use a graphing calculator to graph a line and find its slope.

Example

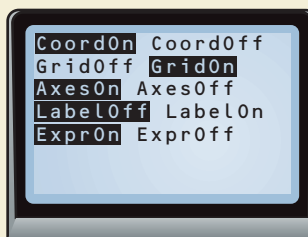
Find the slope of the line $y = \frac{2}{3}x$.

Solution

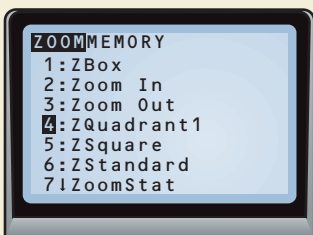
1 Press $\boxed{Y=}$ $\boxed{(}$ $\boxed{2}$ $\boxed{\div}$ $\boxed{3}$ $\boxed{)}$ $\boxed{\times}$.



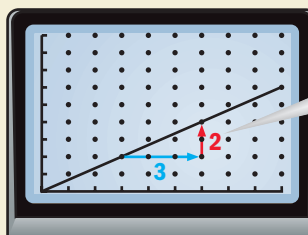
2 Press $\boxed{2nd}$ $\boxed{[FORMAT]}$ and make sure that the grid is on.



3 Press \boxed{ZOOM} $\boxed{4}$ to graph the line.



4 Use the grid to find the slope of the line.



The slope is $\frac{\text{rise}}{\text{run}} = \frac{2}{3}$.

Your turn now

Graph the line. Then find the slope of the line.

- 1. $y = 4x$
- 2. $y = \frac{3}{4}x$
- 3. $y = -3x + 8$
- 4. $y = -\frac{1}{3}x + 5$



- 5. **Writing** What is the relationship between the slope of the line and the coefficient of x in each of Exercises 1–4?
- 6. **Critical Thinking** What do you think is the slope of the line $y = \frac{2}{5}x$? Graph the line and find its slope to check your answer.