

NAME _____

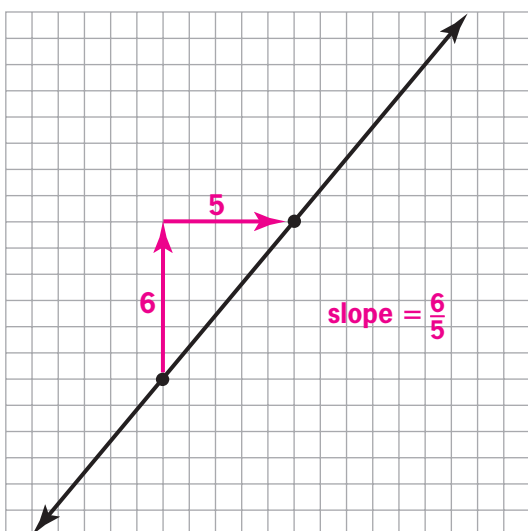
Module 8 Writing Linear Equations of
Two Variables
Lesson 1 Finding Slope



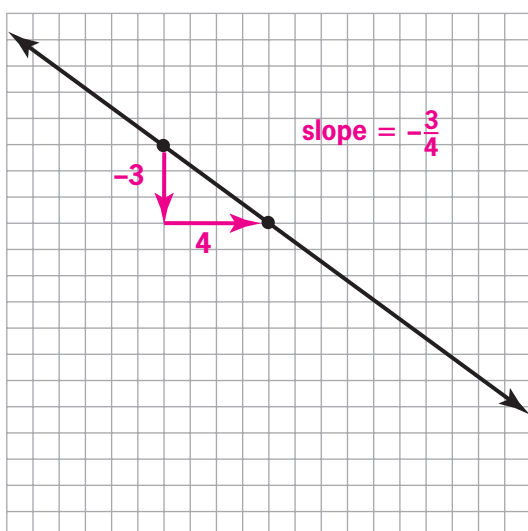
**guided
practice**

Set 1

1. Use $\frac{\text{rise}}{\text{run}}$ to find the slope.



2. Use $\frac{\text{rise}}{\text{run}}$ to find the slope.



© 2003 BestQuest

3. Use the slope formula to determine the slope of the line through the points (0, 2) and (-4, 7).

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{7 - 2}{-4 - 0} = \frac{5}{-4} = -\frac{5}{4}$$

4. Find the slope of the line passing through the points (-3, -3) and (5, 5) using the slope formula.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{5 - (-3)}{5 - (-3)} = \frac{8}{8} = 1$$

Set 2

1. Find the slope of the line passing through the points (7, -2) and (-6, -2).

$$m = 0$$

2. Find the slope of the line passing through the points (35, 0) and (35, -11).

The slope of the line is undefined.

3. Find the slope of a line perpendicular to the line passing through the points (3, 5) and (6, 1).

The slope of a perpendicular line is $\frac{3}{4}$.

4. Find the slope of a line parallel to the line passing through the points (2, 2) and (5, 5).

The slope of a parallel line is 1.

5. Find the slope of any line perpendicular to the x-axis.

The slope of any line perpendicular to the x-axis is undefined.

