Name _____ Date _____

Skills Maintenance

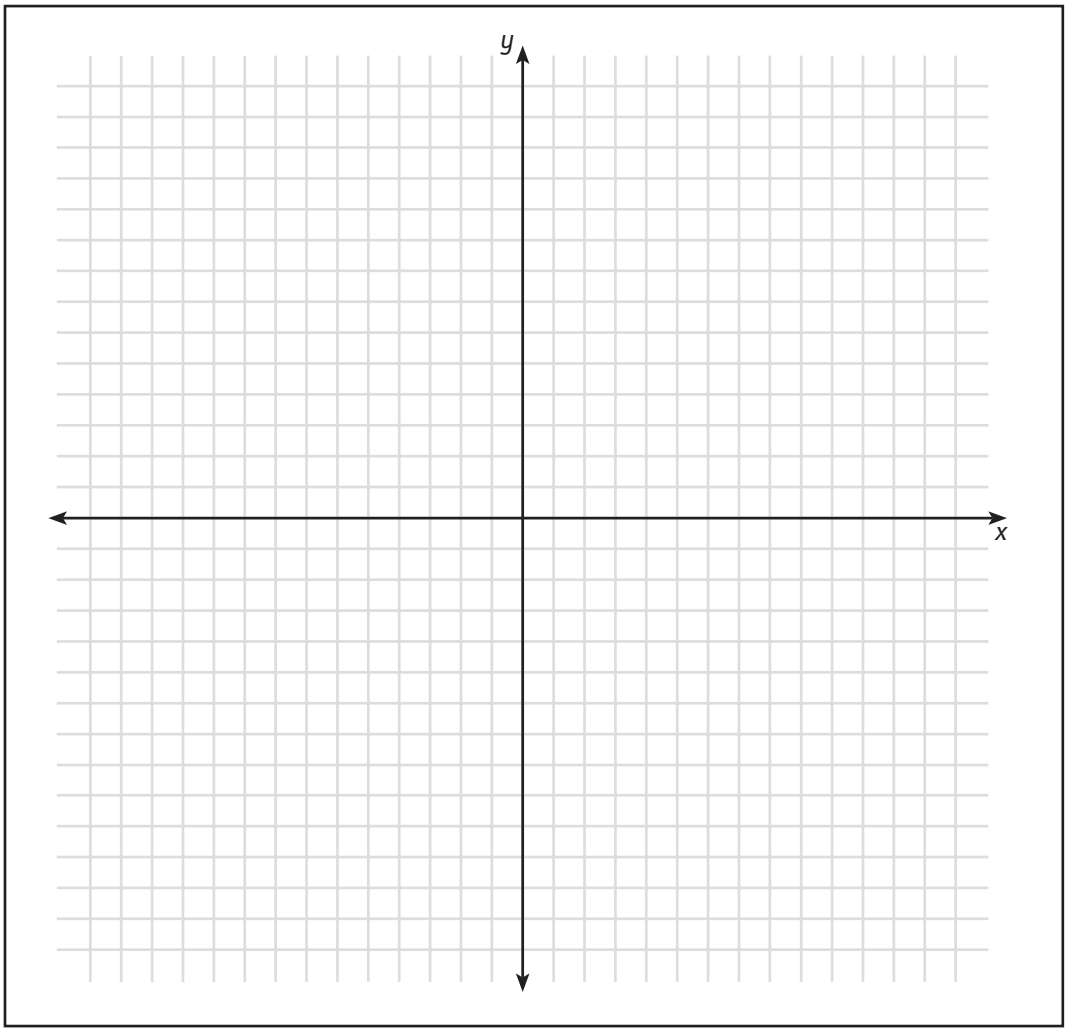
Drawing Graphs of Functions

Activity 1

Use the equation and *x/y* table to graph the function. Fill in the scale on the graph to help plot the points and draw the line.

$y = 3x$ The *x/y* table is:

x	*y*
–1	–3
0	0
1	3
2	6
3	9



Name _____ Date _____

Apply Skills
Slope and Linear Functions

Activity 1

Identify the slope for each of the functions.

1. $y = 3x$ The slope is _____.

2. $y = -2x$ The slope is _____.

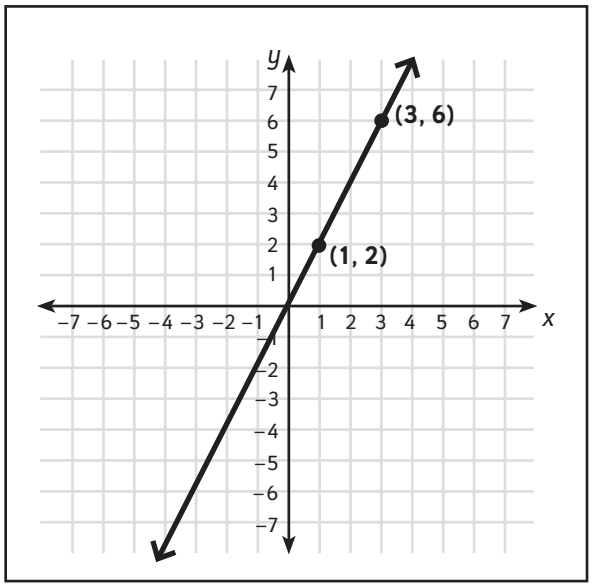
3. $y = x$ The slope is _____.

4. $y = -\frac{2}{3}x$ The slope is _____.

Activity 2

Identify the slope of the line by looking at the rise over run on the graph. Then write the function based on the information you see.

1.

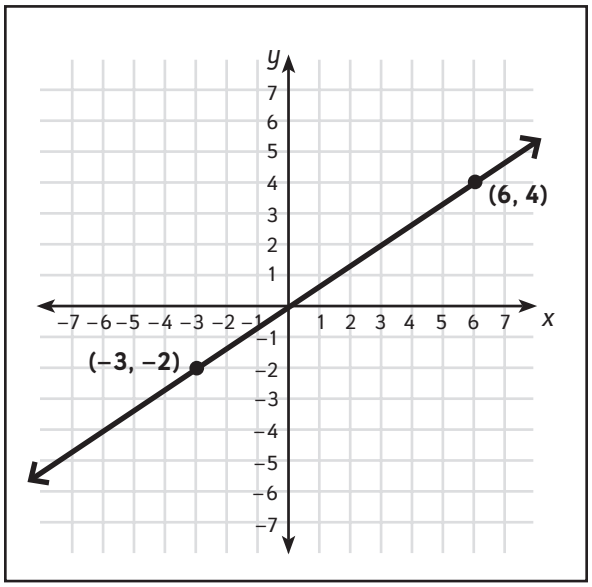


The rise is _____ and the run is _____.

The slope is _____.

Write the function. _____

2.



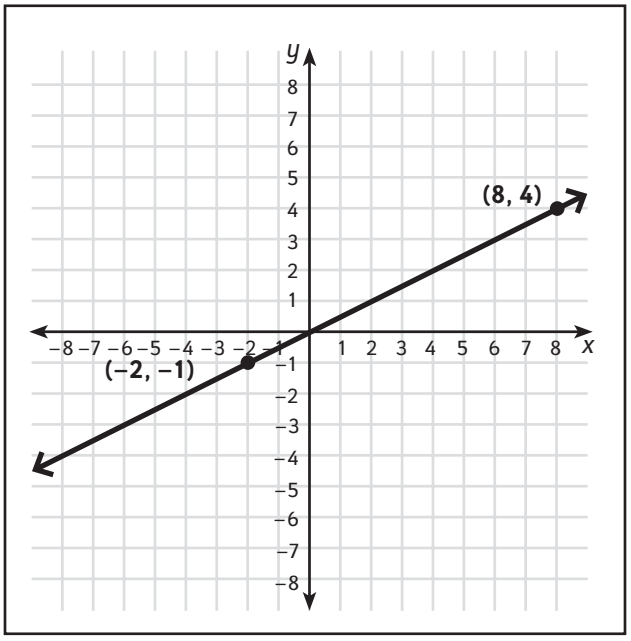
The rise is _____ and the run is _____ .

The slope is _____.

Write the function. _____

Name _____ Date _____

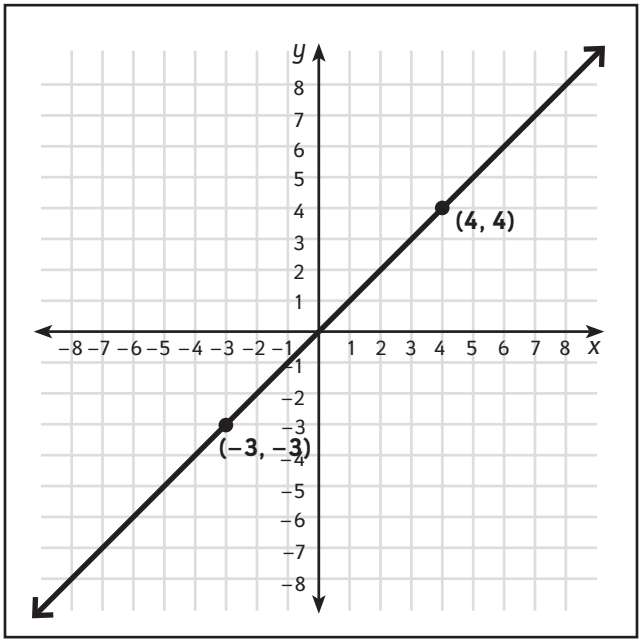
3.



The rise is _____ and the run is _____ .

The slope is _____. Write the function. _____

4.



The rise is _____ and the run is _____.

The slope is _____. Write the function. _____

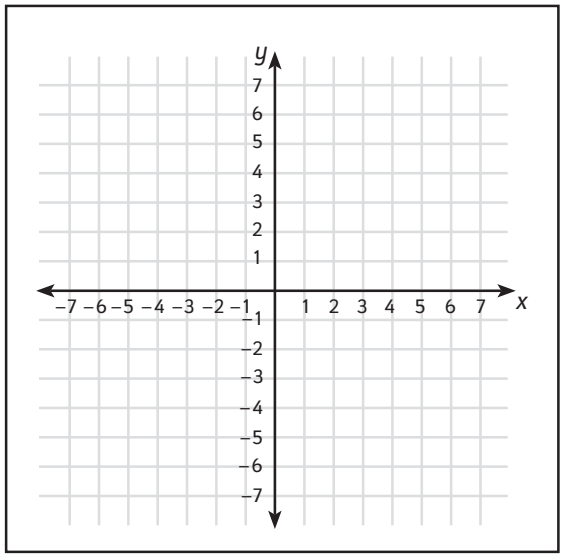
Name _____ Date _____

Problem-Solving Activity

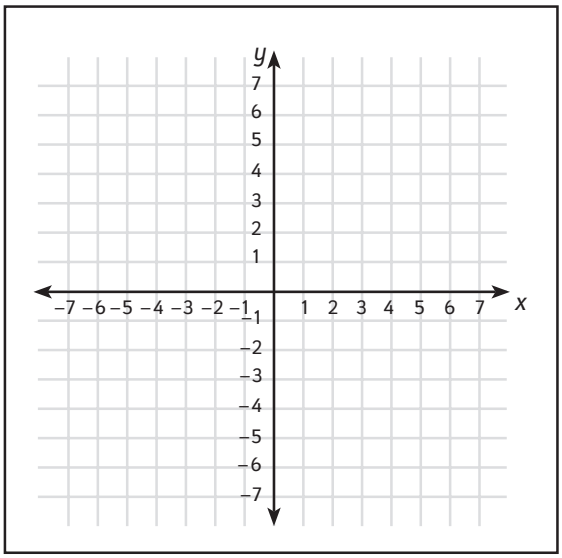
Drawing Lines

For each problem, graph a line based on the slope. Use rise over run.

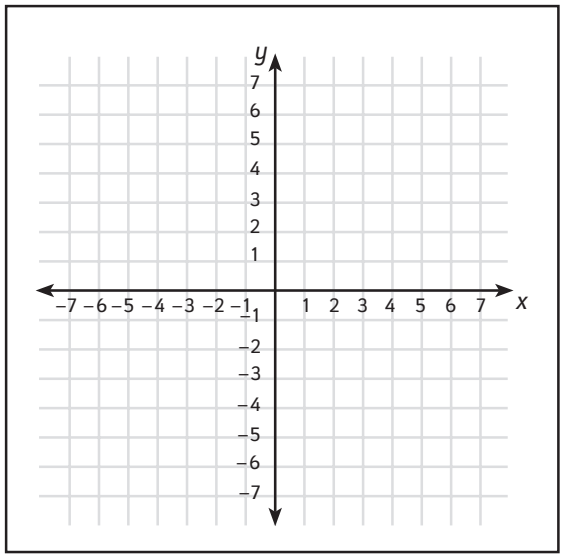
1. Draw the line with the slope $\frac{1}{2}$ that goes through the point (4, 2).



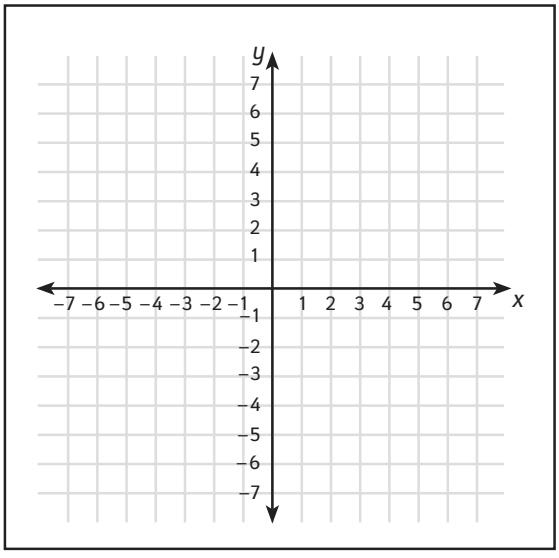
2. Draw the line with the slope −1 that goes through the point (2, −2).



3. Draw the line with the slope 2 that goes through the point (1, 2).



4. Draw the line with the slope $\frac{2}{3}$ that goes through the point (3, 2).



Reinforce Understanding
Use the **mBook** ***Study Guide*** to review lesson concepts.