Activity 1

Look at the three lines on the graph and select the equation that matches each line. Use your knowledge of slope and steepness to help you.
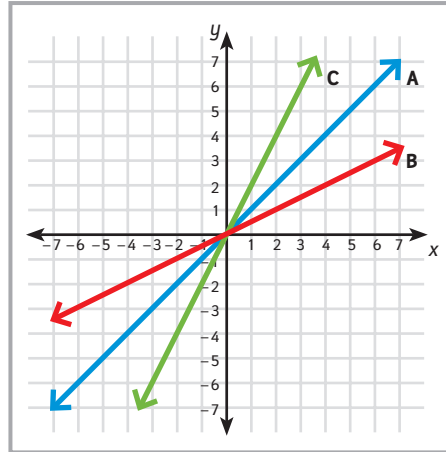
1. Which equation matches Line A?
   (a) $y = 2x$
   (b) $y = x$
   (c) $y = \frac{1}{2}x$

2. Which equation matches Line B?
   (a) $y = 2x$
   (b) $y = x$
   (c) $y = \frac{1}{2}x$

3. Which equation matches Line C?
   (a) $y = 2x$
   (b) $y = x$
   (c) $y = \frac{1}{2}x$

Activity 2

Tell which line is steeper by comparing slopes. Write a or b on your paper.

1. Which line is steeper?
   (a) $y = 3x$
   (b) $y = \frac{1}{3}x$

2. Which line is steeper?
   (a) $y = \frac{1}{2}x$
   (b) $y = 2x$

3. Which line is steeper?
   (a) $y = 2x$
   (b) $y = 3x$

4. Which line is steeper?
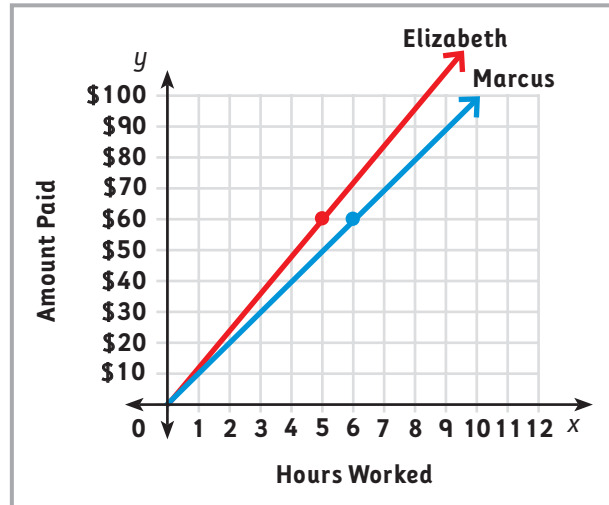   (a) $y = \frac{2}{3}x$
   (b) $y = x$

Activity 3

Look at the two lines on the graph. They show that Marcus earns $10 per hour at the restaurant and Elizabeth earns $12 per hour. Answer the questions using the graph.

1. How many hours does Marcus have to work to earn $60?

2. How many hours does Elizabeth have to work to earn $60?

3. If the goal was to see who was first to earn $120, who would reach the goal faster, Elizabeth or Marcus?

Activity 4 • Distributed Practice

Solve.

1. $3x = -24$

2. $-4x + 5 = -27$

3. $72 = 9x$

4. $-6 + -6y = 36$

5. $x - 13 = 13$

6. $-6x + 1 = -5$

7. $170 = x + 80$

8. $210 = -30y$