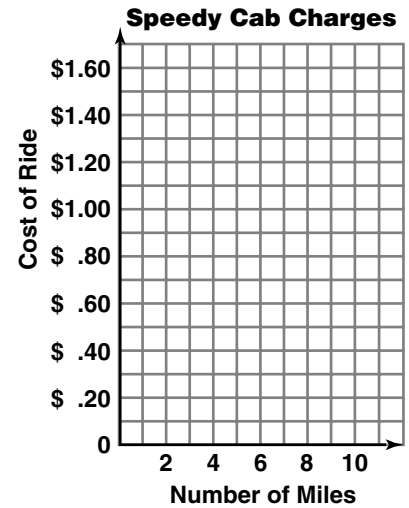


# Skill: Linear Functions, Graphs, and Tables

## Investigation 2

### Moving Straight Ahead

1. A ride in a cab costs \$0.40 plus \$0.15 per mile.
  - a. Write and graph an equation for traveling  $x$  miles in the cab.
  - b. The cab charges \$0.70 for a ride of how many miles?
  - c. How much does the cab charge for a trip of 8 miles?

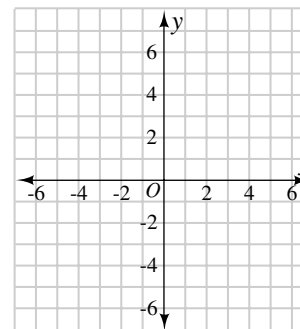
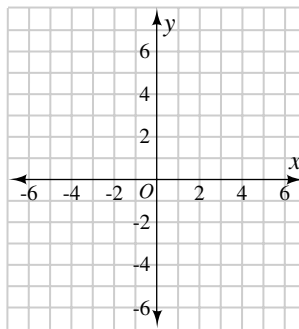
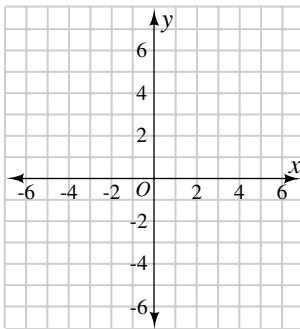


Graph each linear equation.

2.  $y = -4x + 6$

3.  $y = -2x + 7$

4.  $y = -3x - 1$



On which of the following lines does each point lie? A point may lie on more than one line.

- A.  $y = x + 5$       B.  $y = -x + 7$       C.  $y = 2x - 1$

5.  $(0, 5)$

6.  $(1, 6)$

7.  $\left(\frac{8}{3}, \frac{13}{3}\right)$

8.  $(0, -1)$

9.  $(4, 9)$

10.  $(4, 3)$

11.  $(-2, -5)$

12.  $(-8, 15)$

**Skill: Linear Functions, Graphs, and Tables** *(continued)***Investigation 2****Moving Straight Ahead**

Decide if each table represents a linear relationship. For those that do, write an equation that represents the relationship.

13.

$x$	$y$
-3	18
-1	6
1	-6
3	-18

14.

$x$	$y$
5	-2
7	0
9	2
11	4

15.

$x$	$y$
-3	-17
-1	-11
1	-5
3	1

16.

$x$	$y$
-4	4
0	6
2	7
3	8