Name_____ Date_____

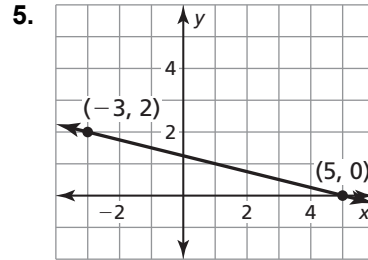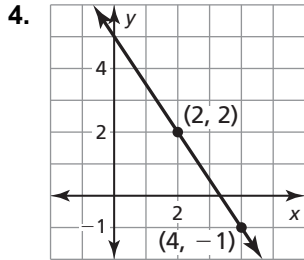## 4.2 Practice A

In Exercises 1–3, write an equation in point-slope form of the line that passes through the given point and has the given slope.

1. $(3, 1)$; $m = 4$

2. $(2, 7)$; $m = -3$

3. $(4, -3)$; $m = -5$

In Exercises 4 and 5, write an equation in slope-intercept form of the line shown.

4.

5.

In Exercises 6–8, write an equation in slope-intercept form of the line that passes through the given points.

6. $(6, 3)$, $(3, 10)$

7. $(5, -4)$, $(15, 2)$

8. $(4, -3)$, $(2, -9)$

In Exercises 9–11, write a linear function *f* with the given values.

9. $f(1) = 3, f(3) = 4$

10. $f(6) = 9, f(-5) = 0$

11. $f(-3) = 5, f(3) = 5$

In Exercises 12 and 13, tell whether the data in the table can be modeled by a linear equation. Explain. If possible, write a linear equation that represents *y* as a function of *x*.

12.

x	1	3	5	7	9
y	−2	4	7	14	22

13.

x	−2	0	2	4	6
y	−3	0	3	6	9

14. You are renting a paddle board. The company charges a $50 fee and $20 per half-day.

   a. Write an equation that represents the total cost (in dollars) of renting a paddle board as a function of the number of half-days.

   b. Find the total cost of renting a paddle board for 7 half-days.