Name_____ Date _____

4.1　Practice A

In Exercises 1–3, write an equation of the line with the given slope and *y*-intercept.

1. slope: 3
y-intercept: 8

2. slope: -4
y-intercept: 0

3. slope: 0
y-intercept: -2

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

4.

5.
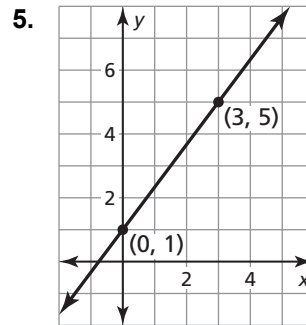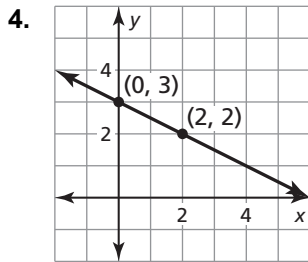
In Exercises 6–8, write an equation of the line that passes through the given points.

6. $(2, 3), (0, 9)$

7. $(5, -2), (0, -2)$

8. $(-1, 4), (0, -2)$

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

9. $f(0) = 3, f(1) = 5$

10. $f(0) = 9, f(2) = 4$

11. $f(3) = -2, f(0) = 1$

12. In 2003, a gallon of gas cost $1.75. In 2013, a gallon of gas cost $3.50.

a. Write a linear model that represents the cost (in dollars) of a gallon of gas as a function of the number of years since 2003.

b. Use the model to predict the cost of a gallon of gas in 2023.

13. Line ℓ is a reflection in the *y*-axis of line *k*. Write an equation that represents line *k*.