LESSON 4.2

Practice A

For use with the lesson "Use Linear Equations in Slope-Intercept Form"

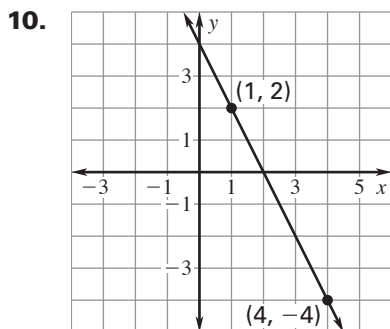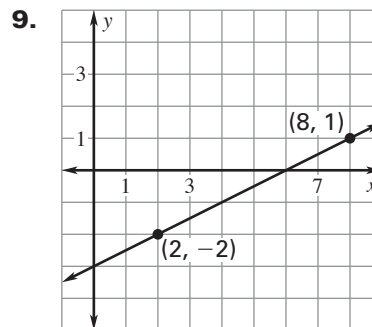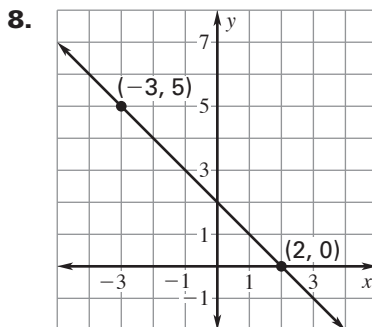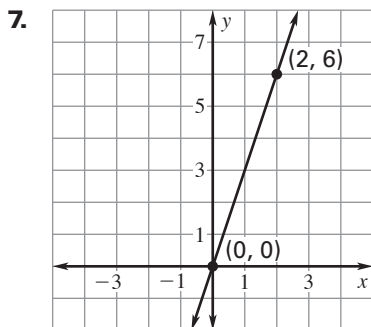**Write an equation of the line that passes through the given point and has slope *m*.**

1. $(0, 8); m = 3$

2. $(5, 1); m = 4$

3. $(-4, 3); m = 2$

4. $(6, -1); m = 9$

5. $(3, 4); m = \dfrac{1}{2}$

6. $(8, 2); m = -4$

Write an equation of the line shown.

7.

8.

9.

10.

11.

12.
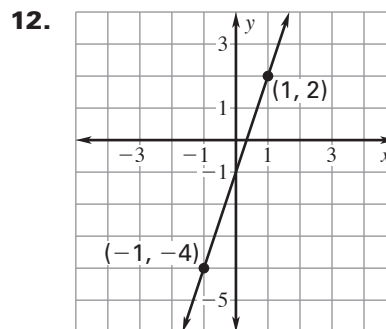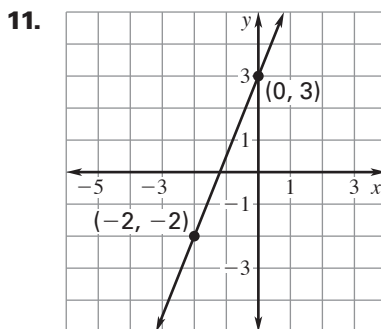
Write an equation of the line that passes through the given points.

13. $(0, 0), (4, -20)$

14. $(-7, 0), (4, 11)$

15. $(4, -2), (8, -5)$

Write an equation for the linear function *f* with the given values.

16. $f(6) = 3, f(9) = 15$

17. $f(0) = 2, f(3) = -10$

18. $f(-2) = -5, f(4) = 4$

19. Tae Kwon Do You are taking a Tae Kwon Do class that costs $15 a month. In addition, you needed to purchase a uniform. You paid a total of $108 after 6 months. Write an equation that gives the total cost (in dollars) as a function of the length of time you have been taking classes (in months). Find the total cost after 9 months.

20. Refreshments Your school club is making cookies for an upcoming school dance. On the morning of the dance, your group makes 5 batches of dough that yield 7.5 dozen cookies. In the afternoon, your group makes 7 batches of dough that yield 10.5 dozen cookies.

   a. Write an equation that gives the number of dozen cookies as a function of the number of batches made.

   b. How many dozen cookies can be made from 12 batches of dough?

   c. If 12 cookies are in a dozen, how many cookies will 12 batches make?

Algebra 1