

# Algebra I

## Worksheet 44

Name \_\_\_\_\_

Identify the form of the equation.

1.  $y = -5x + 4$

2.  $y + 3 = -7(x - 6)$

3.  $9x - 2y = 11$

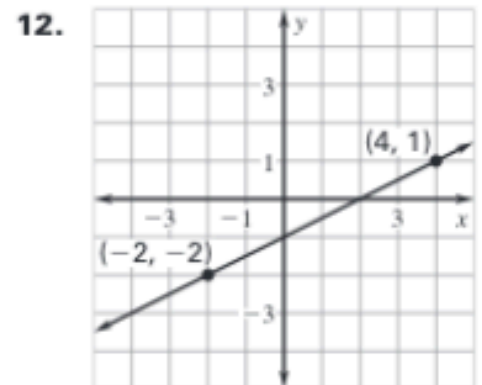
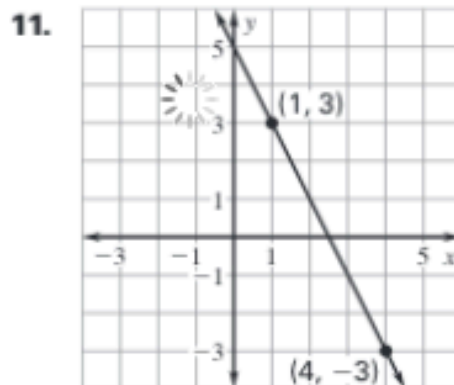
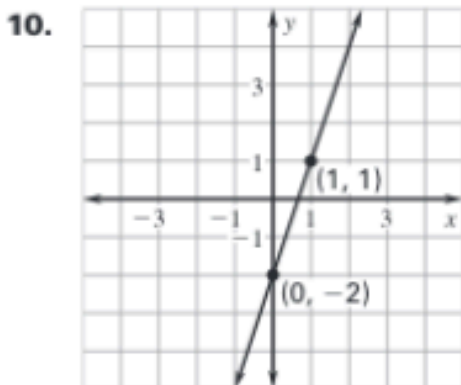
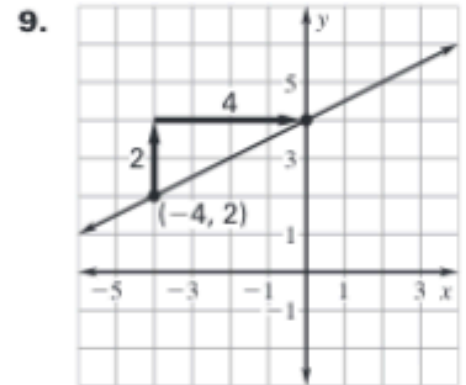
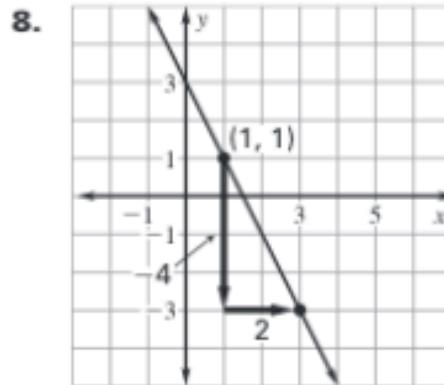
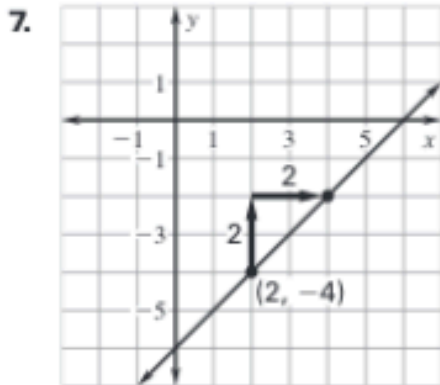
Write two equations in standard form that are equivalent to the given equation.

4.  $x + y = -14$

5.  $x + 3y = 7$

6.  $9x + 3y = 6$

Write an equation in standard form of the line shown.



**Write equations of the horizontal and the vertical lines that pass through the given point.**

**13.**  $(2, 1)$

**14.**  $(3, 7)$

**15.**  $(-1, 4)$

- 16. Lawn Seed** You are buying \$80 worth of lawn seed that consists of two types of seed. One type is a quick-growing rye grass that costs \$3.80 a pound, and the other type is a higher-quality seed that costs \$5 a pound.
- Write an equation in standard form that models the possible combinations of each kind of rye grass you can buy for \$80.
  - How many pounds of quick-growing rye seed can you buy if you buy 15 pounds of the higher-quality seed?
  - How many pounds of the higher-quality seed can you buy if you buy 18 pounds of the quick-growing rye?
- 17. Craft Paper** You can buy sheets of basic craft paper for \$.10 each and sheets of textured craft paper for \$.13 each. Write an equation in standard form that models the possible combinations of each kind of paper you can buy for \$10. List three of these possible combinations.

