

## Section 7.3 Worksheet

Name: \_\_\_\_\_

Solve the linear system using the elimination method.

1.)  $3v - 2w = 1$

$$2v + 2w = 4$$

2.)  $2a + 6z = 4$

$$3a - 7z = 6$$

3.)  $9x - 3y = 20$

$$3x + 6y = 2$$

4.)  $y = x - 9$

$$x + 8y = 0$$

5.) In one week, a music store sold 9 guitars for a total of \$3611. Electric guitars sold for \$479 each and acoustic guitars sold for \$339 each.

a. Write a system of linear equations that relates the unknowns. Be sure to define your variables. Solve the system using elimination.

b. How many of each type of guitar were sold?