Section 7.2 Worksheet

Name: _____

Solve the linear system using the substitution method.

1.) $y = x - 4$

$4x + y = 26$

2.) $2c - d = -2$

$4c + d = 20$

3.) $x - 2y = -25$

$3x - y = 0$

4.) $-3w + z = 4$

$-9w + 5z = -1$

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 substitution.

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