

FM Algebra

Name: _____

Using Linear Systems WS#1

Date: _____ Pd: _____

Solve each system using any method. Show all steps, circle your solution, and check it with both equations after you have solved all three systems.

1.
$$\begin{cases} x - 2y = -10 \\ 4x + y = -4 \end{cases}$$

2.
$$\begin{cases} 2x - 2y = 5 \\ -3x + 3y = 7 \end{cases}$$

3.
$$\begin{cases} 5x + 6y = 14 \\ 3x + 5y = 7 \end{cases}$$

For each problem, write and solve a system of equations to find the price of each item. Make sure you define your variables and answer in a complete sentence!

4. Two pairs of shorts and 2 tank-tops cost \$91.
One pair of shorts and 3 tank-tops cost \$80.50.

5. Four hats and 4 scarves cost \$72.
Three hats and 2 scarves cost \$46.

6. One belt and 2 sweaters cost \$35.
Three belts and 1 sweater cost \$55.

7. Three CDs and 2 DVDs cost \$67.
Two CDs and 4 DVDs cost \$90.