## Name\_

## **Standard Form Systems of Equations**

You want to buy some new pairs of jeans and new dresses, for a total of 6 items of clothing. You go to a store that sells dresses for \$25 and jeans for \$50. You want to spend a total of \$200, which is how much money you got for your birthday. How many jeans and how many dresses do you buy? (Ignore tax.)



**Total Items Equation** 

**Total Spending Equation** 

y:



How can we check the solution?

## Solve the System by Graphing the Standard Form Equations

Then check the solution.

$$x - y = -1 \qquad \qquad 2x + y = 4$$



-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6
-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6
-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6

x + 2y = 4

3x + 2y = 8

<u>Multiple Choice Practice - Use your calculator!</u> You only have to show the work for the correct choice. (1) Which of the following points is the solution to the system of equations?

 $y = 2x + 4 \qquad \qquad y = 5x - 2$ 

a. (-2, 8) b. (8, -2) c. (2, 8) d. (8, 2)

(2) Which of the following systems of equations has the solution (1, -3)? a. 4x - y = 7 b. 4x - y = 7 c. 4x + y = 7 d. r

. 4x - y = 7 b. 4x - y = 7 c. 4x + y = 7 d. none of these 4x + 2y = -10 2x + 4y = -10 2x + 4y = -1