Name $\qquad$ Pd $\qquad$ Date

## 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.)

Variables
Total Items Equation
Total Spending Equation
x:
y :

## Reminder

To find $x$-intercept:

$$
\rightarrow \operatorname{set} y=0
$$

To find $y$-intercept:

$$
\rightarrow \operatorname{set} x=0
$$



How can we check the solution?

Solve the System by Graphing the Standard Form Equations Then check the solution.
$x-y=-1$
$2 x+y=4$

$x+2 y=4$
$3 x+2 y=8$


Multiple Choice Practice - Use your calculator!! 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?

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

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. $4 x-y=7$
b. $4 x-y=7$
c. $4 x+y=7$
d. none of these

$$
4 x+2 y=-10
$$

$2 x+4 y=-10$
$2 x+4 y=-1$

