$\qquad$
$\qquad$

|  |  | abs |  | $3.1$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 10 \\ & 0 \\ & 0 \\ & 0 \\ & 2 \end{aligned}$ | 11/9/2015 | Objective: | Solving by Substitution Day 2 |  |
|  |  | Assignment: | Practice \#1-8 |  |
| $\begin{aligned} & 7 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ | 11/ 10/ 2015 | Objective: | Solving by <br> Elimination |  |
|  |  | Assignment: | Practice \#1-11 ODDS |  |
| $\begin{aligned} & 7 \\ & 0 . \\ & 0 \\ & 0 \\ & \hline \\ & \hline \end{aligned}$ | 11/ 11/ 2015 | Objective: | Elimination Day 2 |  |
|  |  | Assignment: | Practice \#1-11 |  |
| $\begin{aligned} & 8 \\ & 0 \\ & 0 \\ & \frac{10}{8} \\ & 8 \end{aligned}$ | 11/ 12/ 2015 | Objective: | Solving by Graphing |  |
|  |  | Assignment: | Practice \#1-9 |  |
| $\frac{30}{10}$ | 11/ 13/ 2015 | Objective: | Quiz! |  |
|  |  | Assignment: | HW 3.1 Due! |  |

$\qquad$

Be lw $\mathbf{k}$
Week of $\qquad$ - $\qquad$

Monday

Name: $\qquad$
Period: $\qquad$

Friday
$\qquad$
$\qquad$ Period $\qquad$

## "What DIfNEY MOVIE IS ABOUT A STUPID BOYFRIEND?'"

Solve the systems of equation using the substitution method. The answer to each problem will match a letter that will allow you to figure out the joke.

1. $\begin{aligned} & 2 x+3 y=10 \\ & y=-x+2\end{aligned}$
U. $(1,2)$
O. $(-5,0)$
2. $\begin{aligned} & x=4 y-7 \\ & 3 x=2 y-1\end{aligned}$
B. $\left(\frac{1}{2}, 7\right)$
W. (0, 0)
3. $\quad \begin{aligned} & 6 x-y=-4 \\ & 2 x+2 y=15\end{aligned}$
D. $(-2,-3)$
A. $(-1,1)$
4. $\begin{aligned} & 5 y-6=x \\ & y=-x\end{aligned}$
Y. $(-1,4)$
E. $(-4,6)$
M. $(-5,-3)$
5. $\begin{aligned} & x-2 y=1 \\ & y=x+2\end{aligned}$
6. $\quad \begin{aligned} & x-y=3 \\ & 6 x+4 y=13\end{aligned}$
N. $(-4,5)$
S. $(-3,2)$
V. All real number on the line: $y=-\frac{1}{2} x+3$
B. $\left(\frac{5}{2},-\frac{1}{2}\right)$
F. $(-3,13)$
7. $x-7 y=19$
$5 x=-2 y-16$

## Algebra I - Unit 4: Solving Systems by Elimination Day 1

## Practice - Solving Systems by Elimination Day 1

Name $\qquad$ Date $\qquad$ Period $\qquad$

## Solve each system of equation using elimination.

$x+y=5$
$3 x-y=7$
$3 x+5 y=0$
$-2 x+5 y=25$
3. $2 x+y=3$
$-2 x+5 y=-9$
4. $\begin{aligned}-4 x+6 y & =-4 \\ 4 x-9 y & =5\end{aligned}$
5. $3 x+8 y=-1$
$-3 x+y=-17$
6. $2 x+y=5$
$-2 x-y=8$
7.
$3 x+y=-6$
$5 x+y=-10$
8. $\frac{1}{2} x-5 y=30$
$\frac{1}{2} x+7 y=6$

Solve each system of equation using elimination.
9. $\begin{aligned} & 4 x+7 y=-12 \\ & 4 x+y=12\end{aligned}$, find $x-y$
10. $\begin{aligned} & x+2 y=15 \\ & 5 x-2 y=3\end{aligned}$, find $x y$
11. Naomi took a 40-question history exam. The exam only had multiple-choice questions and shortanswer questions. Each multiple-choice question was worth one point; each short-answer question was worth five points; the whole exam was worth 100 points.
A. Which system of equation could be used to solve for $m$, the number of multiple-choice questions, and $s$, the number of short-answer questions?
A $\begin{aligned} & 5 \mathrm{~m}+\mathrm{s}=40 \\ & \mathrm{~m}+\mathrm{s}=100\end{aligned}$
C $\mathrm{s}+\mathrm{m}=40$
$5 s+m=100$
B $\begin{aligned} & m+s=40 \\ & 5 m+s=100\end{aligned}$
D $\begin{gathered}5 s+m=40 \\ s+m=100\end{gathered}$
B. Solve the system that you selected in part A.

## Algebra I - Unit 4: Solving Systems by Elimination Day 2

## Practice - Solving Systems by Elimination Day 2

Name $\qquad$ Date $\qquad$ Period $\qquad$

## Solve each system by elimination.

$5 x-2 y=4$
2. $\begin{aligned} & 3 x-5 y=7 \\ & 5 x-2 y=-1\end{aligned}$, then $x+y=$ ?
$3 x-5 y=13$
$x-2 y=5$
4. $\begin{aligned} & 4 x+3 y=9 \\ & 3 x+4 y=12\end{aligned}$, then $x y=$ ?
5. $3 x-2 y=-1$
$3 x-4 y=9$
6. $\begin{aligned} 4 x+6 y & =0 \\ 6 x+8 y & =2\end{aligned}$, then $x-y=$ ?
7. Karrie and Amy were shoulder partners. They both worked the same problem, but got two different answers. Who is incorrect and explain the error they made?

$$
\begin{array}{r}
\begin{array}{r}
\text { Karrie: } \\
\mathrm{x}+\mathrm{y}=-3 \\
3 \mathrm{x}+\mathrm{y}=3
\end{array} \longrightarrow \begin{array}{r}
\mathrm{x}+\mathrm{y}=-3 \\
-(3 \mathrm{x}+\mathrm{y}=3)
\end{array} \\
\begin{array}{r}
-2 \mathrm{x}=0 \\
\mathrm{x}=0
\end{array}
\end{array} \quad \text { When she solved for } \mathrm{x} \text {, Karrie got } \mathrm{x}=0
$$

$$
\begin{array}{r}
\text { Amy: } \\
x+y=-3 \\
3 x+y=3
\end{array} \longrightarrow \begin{gathered}
x+y=-3 \\
-(3 x+y=3)
\end{gathered} \quad \text { When she solved for } x \text {, Amy got } \mathrm{x}=3
$$

## Algebra I - Unit 4: Solving Systems by Elimination Day 2

Set up the system, state the best method to use and use that method to solve.
8. The perimeter of a rectangular volleyball court is 180 feet. The court's width, $w$, is half its length, I. Determine the dimensions, in feet, of the volleyball court.
9. At Candy's Sweet Shop, Sarah made c pounds of chocolate-covered raisins, which sell for $\$ 1.50$ a pound, and y pounds of yogurt-covered raisins, which sell for $\$ 1.20$ a pound. Sarah wants to make 40 pounds of a mixture of the two kinds of raisins that sells for $\$ 1.35$ a pound. How many pounds of each kind of raisin is needed to produce the mixture?
10. Three hundred fifty-eight tickets were sold to the school basketball game on Friday. Student tickets were $\$ 1.50$ and non-student tickets were $\$ 3.25$. The school made $\$ 752.25$. How many student and non-student tickets were sold?
11. Carl bought 19 apples of 2 different varieties to make a pie. The total cost of the apples was $\$ 5.10$. Granny Smith apples cost $\$ 0.25$ each and Gala apples cost $\$ 0.30$ each. How many of each type of apple did Carl buy?

Date $\qquad$ Period $\qquad$

## Solve each system of equations below. You must solve for $\mathbf{y}$ to use your calculator!

1. $y=\frac{2}{3} x-1$
$y=-x-4$
2. $y=-2 x+1$
$y=x-5$
3. $x+y=0$
$3 x+y=-4$
4. $\begin{array}{r}y=\frac{5}{4} x-\frac{1}{2} \\ \frac{3}{4} x+y=2\end{array}$
5. $2 x-y=-1$
$y-\frac{1}{3} x=-3$
6. Shelby solved the following system of equations and reported that $x=4$ and $y=6$. Solve the system of equations by graphing. Is she correct? Why or why not. Use the table to justify your answer.

$$
\begin{gathered}
y-x=2 \\
4 y=8 x-8
\end{gathered}
$$

| $x$ | $y_{1}$ | $y_{2}$ |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

8. Coach Sureshot needs to hire an electrician to do some repair work at his new home. A-1 Electricians charge $\$ 30$ for a service call plus $\$ 45$ per hour while Excellent Electricians charge $\$ 40$ per hour plus a $\$ 55$ service call.
A) What equation could represent the cost for hiring A-1 Electricians?
B) What equation could represent the cost for hiring Excellent Electricians? $\qquad$
If the electricians only work for 2 hours, how much will each company charge him?
C) A-1 Electricians will charge
D) Excellent Electricians will charge $\qquad$
If the electricians have to work for 8 hours, how much will each company charge Coach Sureshot?
E) A-1 Electricians will charge $\qquad$
F) Excellent Electricians will charge $\qquad$
When will both companies charge the same amount?
G) For $\qquad$ hours, both companies would charge $\qquad$ .
9. Which graph best represents a solution to this system of equations?

$$
\begin{aligned}
2 x-3 y & =0 \\
x+2 y & =-7
\end{aligned}
$$

A

B

C

D


