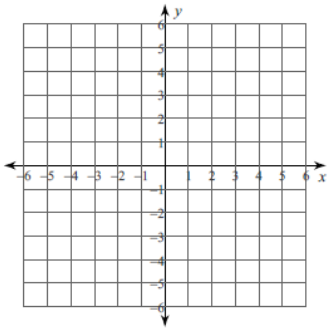
Name: _____ Hour: 4 Date: _____

Systems of Linear Equations Review Assignment (4th Hour Version)

Part 1: Graphing Linear Equations Review

SLOPE-INTERCEPT FORM: State the slope and y-intercept of each linear equation. Then sketch a graph of the equation.

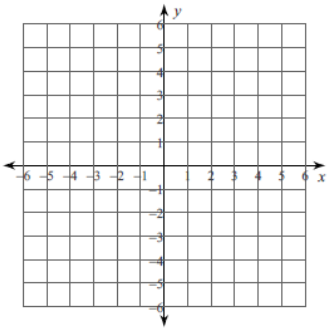
1) $y = \frac{9}{4}x - 5$



Slope: _____

Y-Int: _____

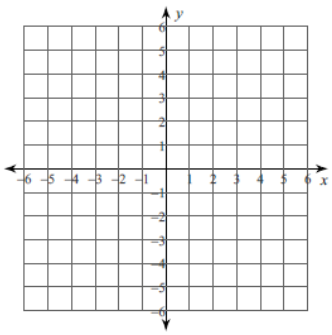
2) $y = \frac{7}{3}x - 4$



Slope: _____

Y-Int: _____

3) $y = 4x + 3$

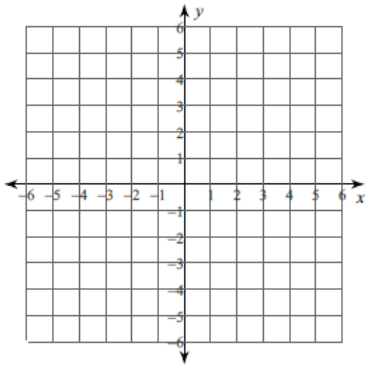


Slope: _____

Y-Int: _____

STANDARD FORM: Calculate the x and y-intercept of each equation and then use these to sketch a graph of the linear equation. NO WORK = NO CREDIT

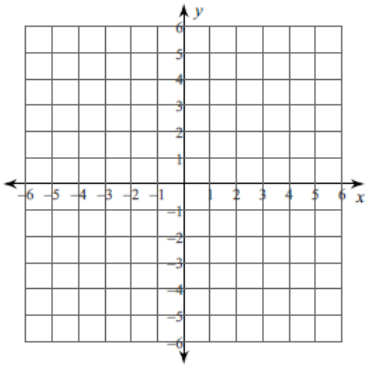
4) $2x - y = -2$



x-intercept:

y-intercept:

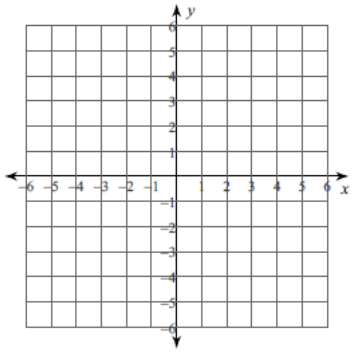
5) $x + y = -1$



x-intercept:

y-intercept:

6) $2x + 5y = -5$



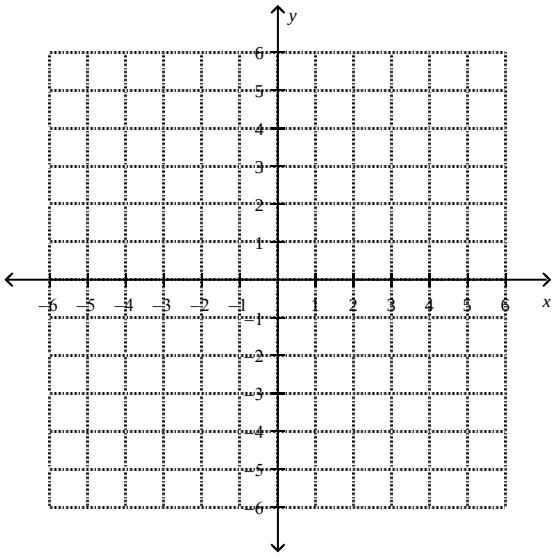
x-intercept:

y-intercept:

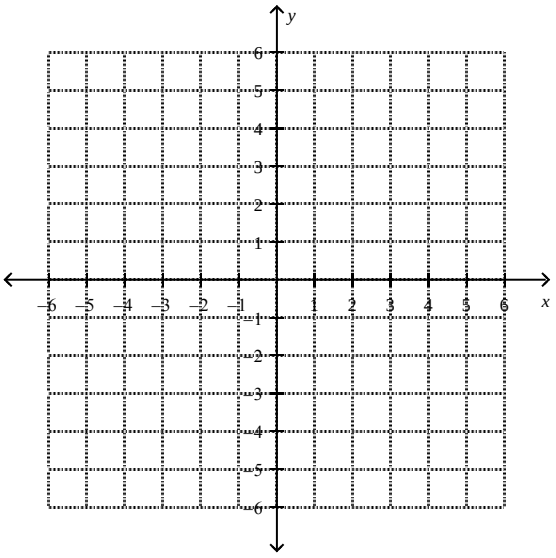
Part 2: Solving Linear Systems

Solve the following linear systems by using the *graphing* method.

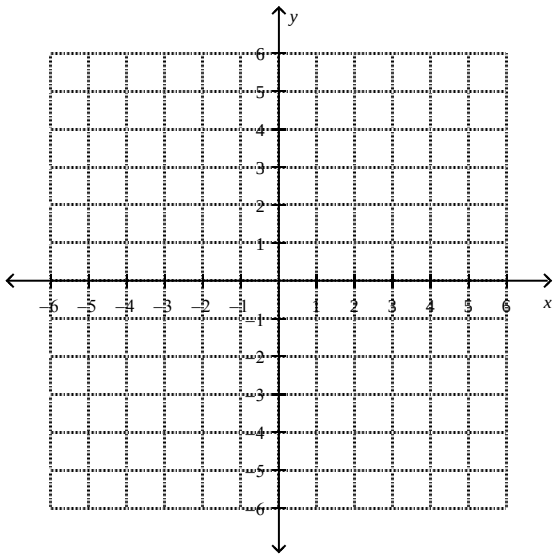
1) $\begin{cases} y = x + 3 \\ y = -2x + 3 \end{cases}$



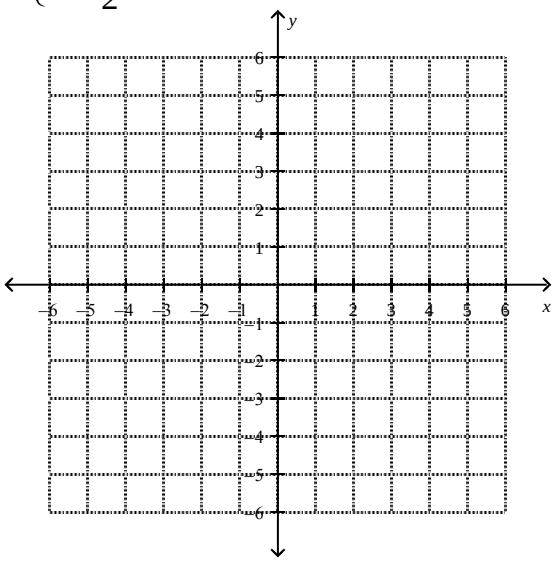
2) $\begin{cases} y = x + 2 \\ y = 4x - 1 \end{cases}$



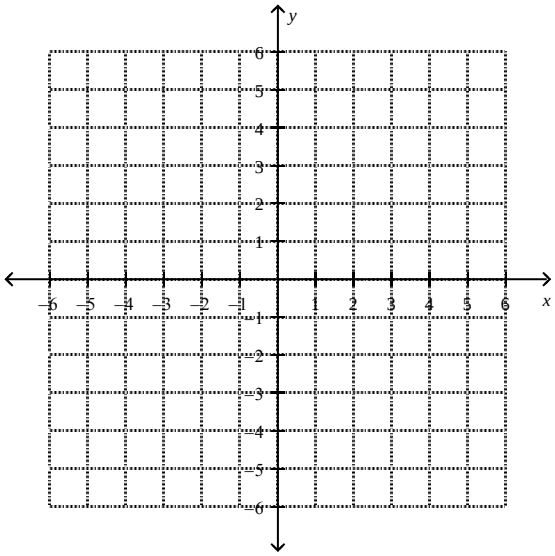
3) $\begin{cases} y = 2x + 3 \\ y = \frac{1}{2}x \end{cases}$



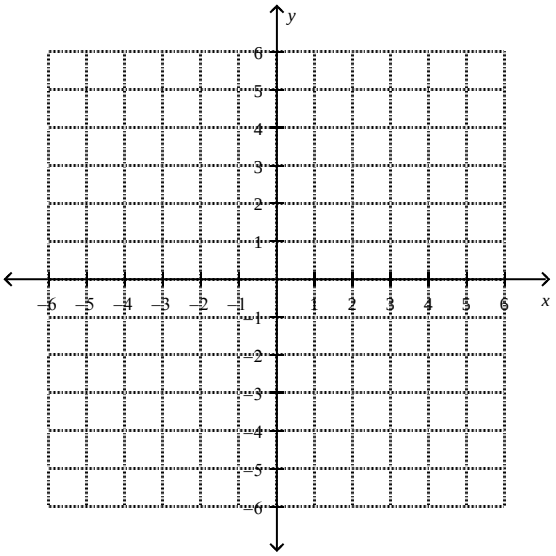
4) $\begin{cases} y = -\frac{3}{2}x + 2 \\ y = \frac{1}{2}x - 2 \end{cases}$



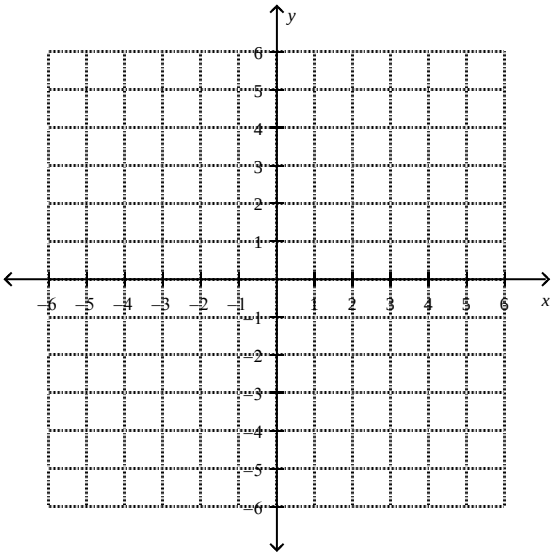
5) $\begin{cases} x = 5 \\ y = 2 \end{cases}$



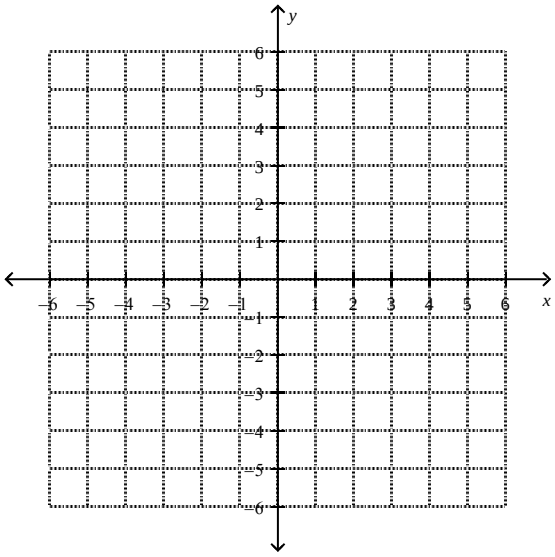
6) $\begin{cases} y = 2x - 2 \\ y = 2x + 5 \end{cases}$



7) $\begin{cases} y = -\frac{3}{4}x + 3 \\ y = \frac{3}{2}x - 6 \end{cases}$



8) $\begin{cases} y = -3x + 4 \\ y = 3x - 2 \end{cases}$



Use the *substitution* method to solve the following systems of equations. No work = no credit.

9) $\begin{cases} y = x - 2 \\ 2x + 2y = 4 \end{cases}$

10) $\begin{cases} x = -4y - 4 \\ 3x + 5y = 2 \end{cases}$

11) $\begin{cases} y = -2x - 1 \\ x - 2y = 12 \end{cases}$

12) $\begin{cases} -3x - 7y = 1 \\ y = -2x + 3 \end{cases}$

13) $\begin{cases} 3x - y = 30 \\ y = -x + 14 \end{cases}$

14) $\begin{cases} x = -6y + 15 \\ -x + 4y = 5 \end{cases}$

15) $\begin{cases} 2x + y = 2 \\ y = 3x + 2 \end{cases}$

16) $\begin{cases} 6x - 3y = 6 \\ y = 2x + 5 \end{cases}$