

ALGEBRA QUIZ

Systems of Equations

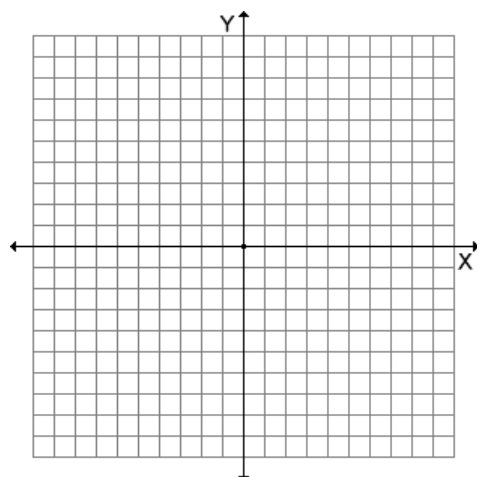
Graphing & Substitution

Name: _____

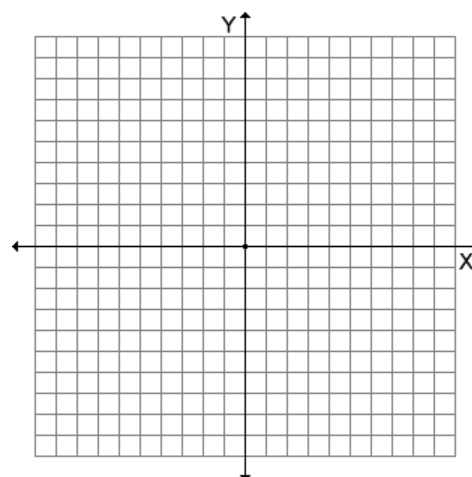
Period: _____ Date: _____

Solve the following systems of equations by graphing. If necessary, indicate whether there is no solution or infinitely many solutions.

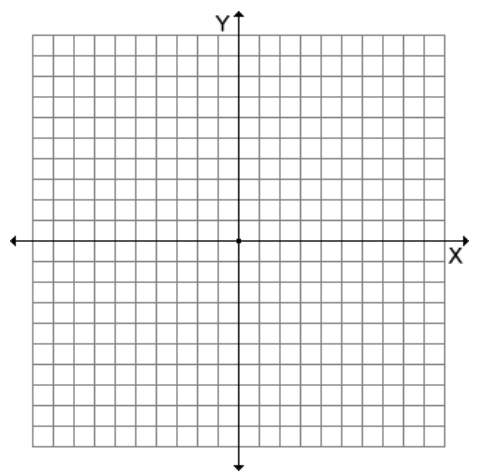
1. $\begin{cases} y = x + 3 \\ x + y = -5 \end{cases}$ Solution: _____



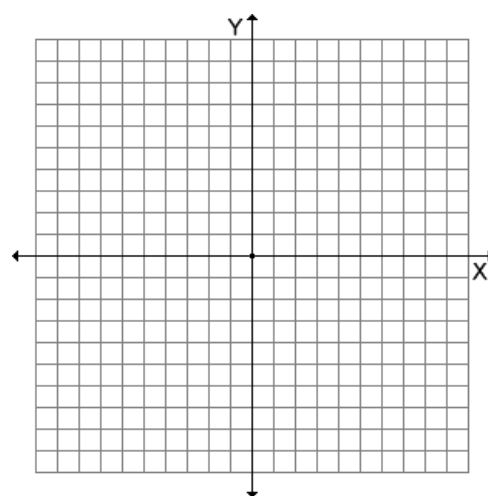
2. $\begin{cases} y = \frac{2}{3}x + 2 \\ y = \frac{5}{3}x - 1 \end{cases}$ Solution: _____



3. $\begin{cases} y = 3x + 1 \\ y - 3x = -3 \end{cases}$ Solution: _____



4. $\begin{cases} 2x + 4y = 8 \\ y = -\frac{1}{2}x + 2 \end{cases}$ Solution: _____



Solve by substitution.

5. $\begin{cases} y = 3x - 6 \\ 2x + y = 9 \end{cases}$ Solution: _____

6. $\begin{cases} 3x + y = 4 \\ 2x - y = 6 \end{cases}$ Solution: _____

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7. $\begin{cases} 6x + y = 3 \\ 5x - 2y = 11 \end{cases}$ Solution: _____

8. $\begin{cases} y = x + 3 \\ x + y = -5 \end{cases}$ Solution: _____

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Are your answers to #1 and #8 the same? _____ Should they be? _____