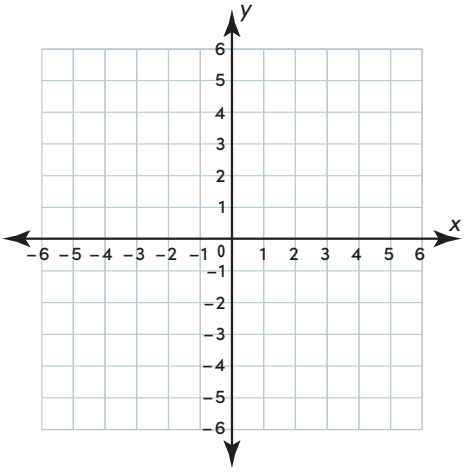
Name _____ Date _____

# SOLVING SYSTEMS OF LINEAR EQUATIONS BY Graphing, Substitution, and Elimination

There are different ways to solve a system of linear equations, including graphing, substitution, and elimination. Let's review each method to solve this system of equations.

Equation 1: _____

Equation 2: _____

| GRAPHING | SUBSTITUTION | ELIMINATION |
|---|---|---|
| Write each equation in slope-intercept form. | Solve either equation for one of the variables. | Rewrite the equations so you can add or subtract them to eliminate a variable term. You'll want the coefficients of one of the variables to be opposites or the same number. Then, solve for the other variable. |
| | Take your solution from above and substitute it for the variable in the other equation. Then, solve. | |
| Graph both equations on the coordinate plane below. Then, find the point where the lines intersect.   | Plug the value from above into one of the equations to solve for the other variable. | Plug the value from above into one of the equations to solve for the other variable. |
| **The solution is the point of intersection: (____ , ____ )** | **Since $x$ = ____ and $y$ = ____ , the solution is (____ , ____ ).** | **Since $x$ = ____ and $y$ = ____ , the solution is (____ , ____ ).** |