**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_**

**U9 HW #2** *Solving Systems of Linear Equations by Graphing Part II*

1. Solve the system of linear equations graphically. If there is one solution, verify that your solution satisfies both equations.

|  |  |
| --- | --- |
| 1. and | 1. and     Circle the ordered pair(s) that are solutions to this system. |
| 1. and | 1. and |

1. Without graphing, determine whether the following systems of linear equations will have one solution, no solution, or infinitely many solutions. (Hint: Look for the pattern when you simplify both equations.)

|  |  |
| --- | --- |
| 1. and | 1. and |
| 1. and | 1. and |

1. How many solutions does the system of linear equations graphed below have? How do you know?



1. One equation in a system of linear equations is .
   1. Write a second equation for the system so that the system has only **one solution**.
   2. Write a second equation for the system so that the system has **no solution**.
   3. Write a second equation for the system so that the system has **infinitely many solutions**.