## Vocabulary:

System of Linear Equations: two or more linear equations grouped together

Solution of a System of Linear Equations: any ordered pair that makes all equations in the system true. In the graph, any point at which the graphs intersect or touch.

No Solution: When the equations in a system are parallel, and/or do not intersect.

Infinitely Many Solution: When the graphs of two equations lie on top of each other, or the lines are really the same equation.

## Types of Linear Systems:



Intersecting Lines
One Solution
( $\mathrm{x}, \mathrm{y}$ )


Parallel Lines
No Solution
2. $\left\{\begin{array}{l}y=-\frac{1}{2} x+2 \\ y=-3 x-3\end{array}\right.$


