8.1 Solving Systems of Equations Graphically

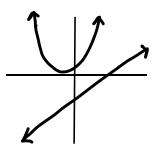
A system of equations is two or more equations, considered together, involving the same variables. The **Solution (s)** is all the values of the variables that make each equation true.

Linear-quadratic system – A system of equations involving both a linear and quadratic equation involving the <u>Same Variables</u>. A graph of this system involves both a <u>straight line</u> and a <u>parabola</u>.

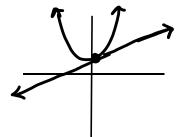
The solution to a system of equations from a graph is the point(s) - or ordered pair(s) (x, y) - where the two graphs ______. These are called the _______ points.

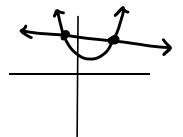
How many solutions are possible?

1. Linear-quadratic system



no solution

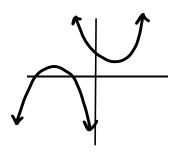


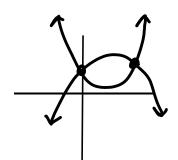


one solution

two solutions

2. Quadratic-quadratic system





no solution

one solution

two solutions

To solve a system of equations graphically:

