

Unit 8: Systems of Equations; Linear & Quadratic Inequalities**8.1 Solving Systems of Equations Graphically****System of Equations:**

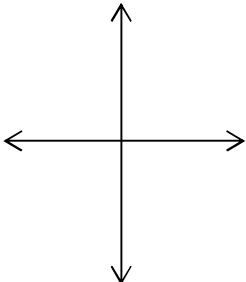
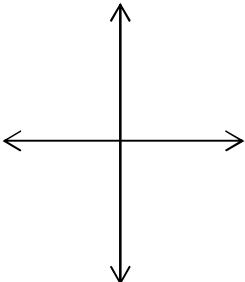
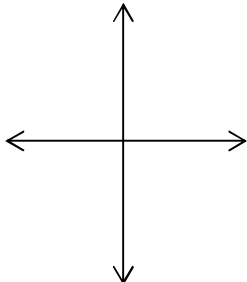
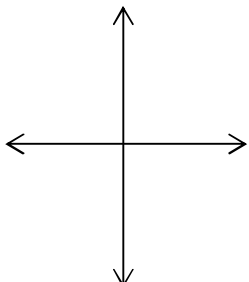
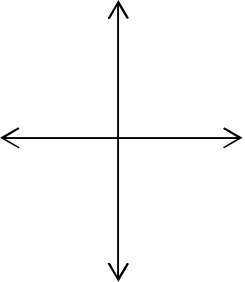
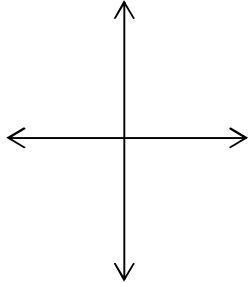
- A set of 2 or more equations with 2 or more variables
- We solved linear systems in grade 10 (and reviewed this at the start of this course)

Solution to a system:

- The value(s) of the variable(s) that satisfies ALL equations in the system (ie. makes all equations true)
- Graphically, where the graphs of the equations intersect

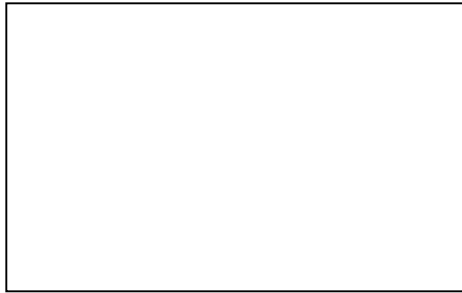
Ex. $x + y = 5$
 $x - y = 1$

How many solutions are possible? Complete the table to illustrate your ideas.

Linear-Quadratic System:			
Number of Solutions			
Sketch			
Quadratic-Quadratic System:			
Number of Solutions			
Sketch			

ex. Solve each of the following system of equations graphically. State the functions graphed and sketch the viewing window.

a) $4x - y + 3 = 0$
 $2x^2 + 8x - y + 3 = 0$



$y_1 =$

$y_2 =$

Solution: _____

b) $2x^2 - 16x - y = -35$
 $2x^2 - 8x - y = -11$



$y_1 =$

$y_2 =$

Solution: _____



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