Activator: Harmony of Functions Diagnostic						
1. Is there a point of intersection	2. Is there a point of intersection	3. Is there a point of intersection				
on the following graph? If so,	on the following graph? If so,	on the following graph? If so,				
what is that point? If not, why?	what is that point? If not, why?	what is that point? If not, why?				
4 2 0 4 6		4 -2 0 2 4				

Name: _____ Date: _____ Period: _____

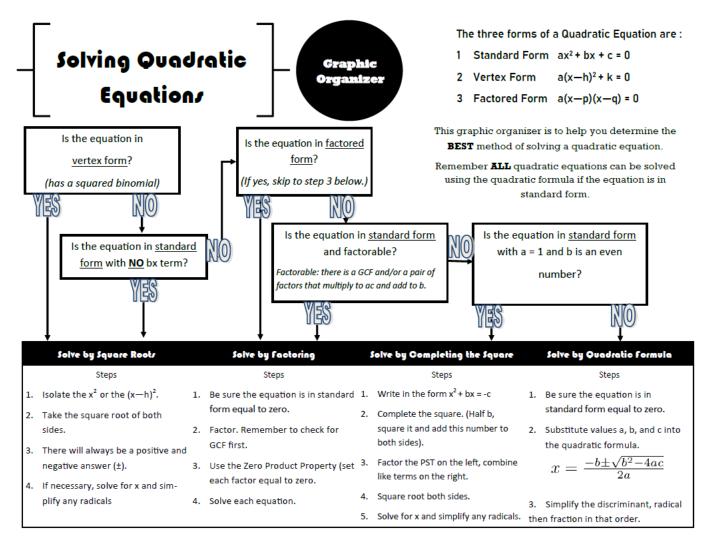
Explore: Solving Systems of Quadratic & Linear Equations Desmos Activity

Record your systems to Slides 9-12 below.

_____ Systems with Quadratics

	Create a system using one Quadratic equation and one linear equation with exactly one solution.	Create a system using two quadratic equations with exactly one solution.	Create a system using one Quadratic equation and one linear equation with exactly two solutions.	Create a system using two quadratic equations with exactly two solutions.
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In order to solve these systems algebraically, we must review solving equations.



Practice:

$$\begin{cases} x + y = 5 \\ y + 1 = 3x^2 + 2x \end{cases}$$

5. Solve the system using substitution method. State the solution(s) as ordered pairs.

$$\begin{cases} y = x^2 + 5x - 2 \\ y = 3x - 2 \end{cases}$$