Homework 1

In Lesson 1, you and your group worked on the Construct-a-Parabola Task shown below. Complete work on your solution method to share with your group during Lesson 2. If your group already completed a solution, try a different approach. You are also welcome to search online (e.g., on YouTube) for a method; just be sure to process the method and be able to present it in your own words and with your own representations.

Construct-a-Parabola Task. Create a collection of points that form a parabola by using its definition. Place a minimum of 5 points on your parabola. Be able to explain your thinking. Be sure to appeal to the definition of a parabola in your explanations, since every point on your parabola has to satisfy the definition. Do **NOT** use a graph.

> **DEFINITION:** A parabola is the set of points that are equal distance from a fixed point (called the focus) and a fixed line (called the directrix).