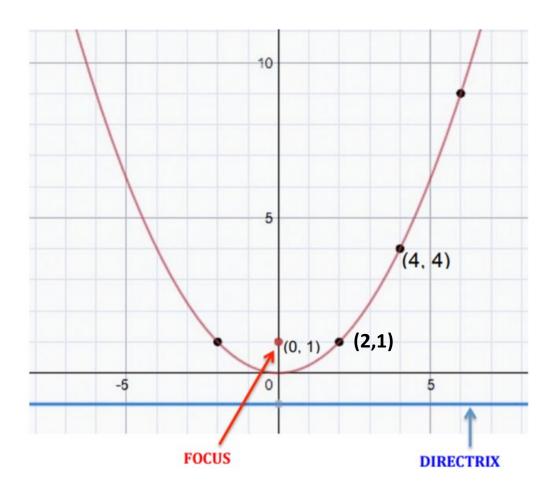
## Activity 1 of Lesson 3: Justify Points on a Parabola

**Task:** Sasha and Keoni were asked to use the definition of a parabola and any other useful tools that they have learned about in math classes to justify why the following two points are on this parabola: (2,1) and (4,4).

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**).



Solve the task yourself:

- **1.** Justify that (2, 1) is on the parabola.
- **2.** Justify that (4,4) is on the parabola.