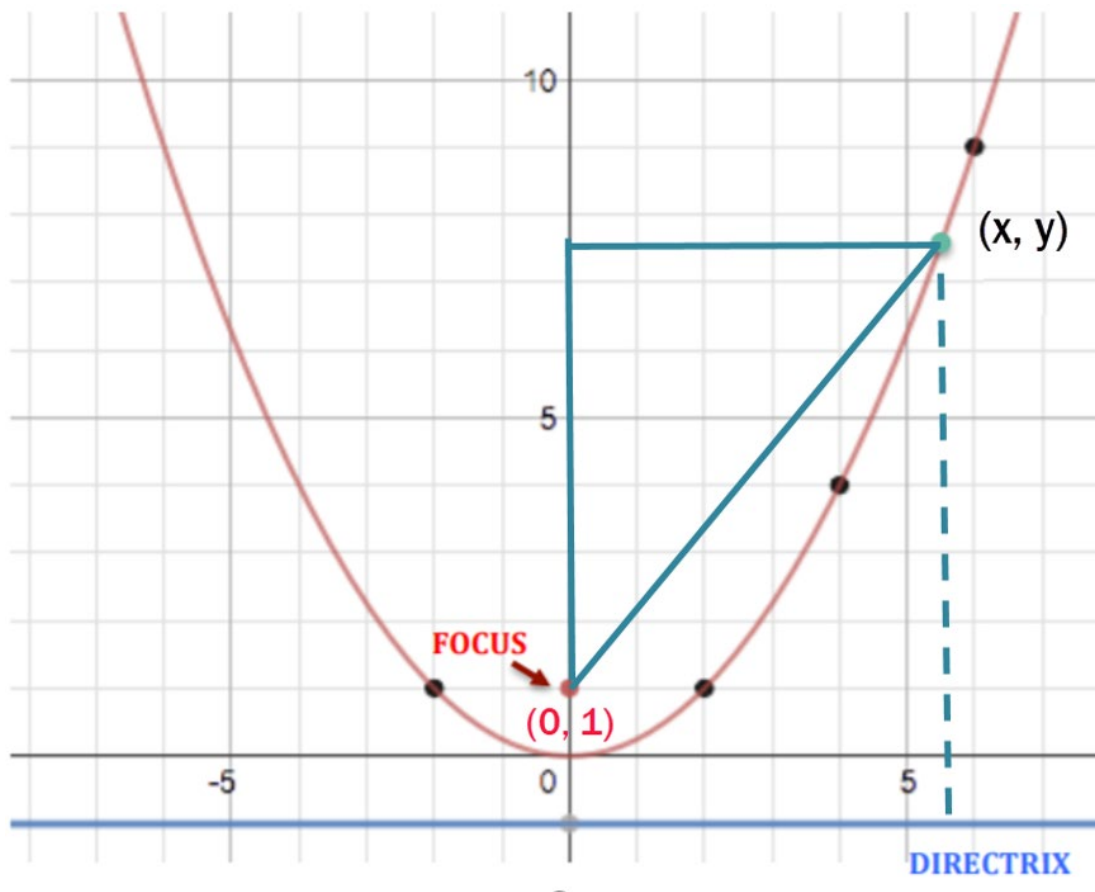


Activity 3 of Lesson 3:
Derive the Equation for a Parabola

Task: Generalize Sasha and Keoni's method to find the equation for this parabola with a focus at $(0, 1)$



Derive the equation for this parabola following Sasha & Keoni's general approach:

- What is the distance from the general point (x, y) to the directrix and **why**?
- What is the length of each side of the right triangle and **why**?
- Use algebra to find the equation (in a simple form)