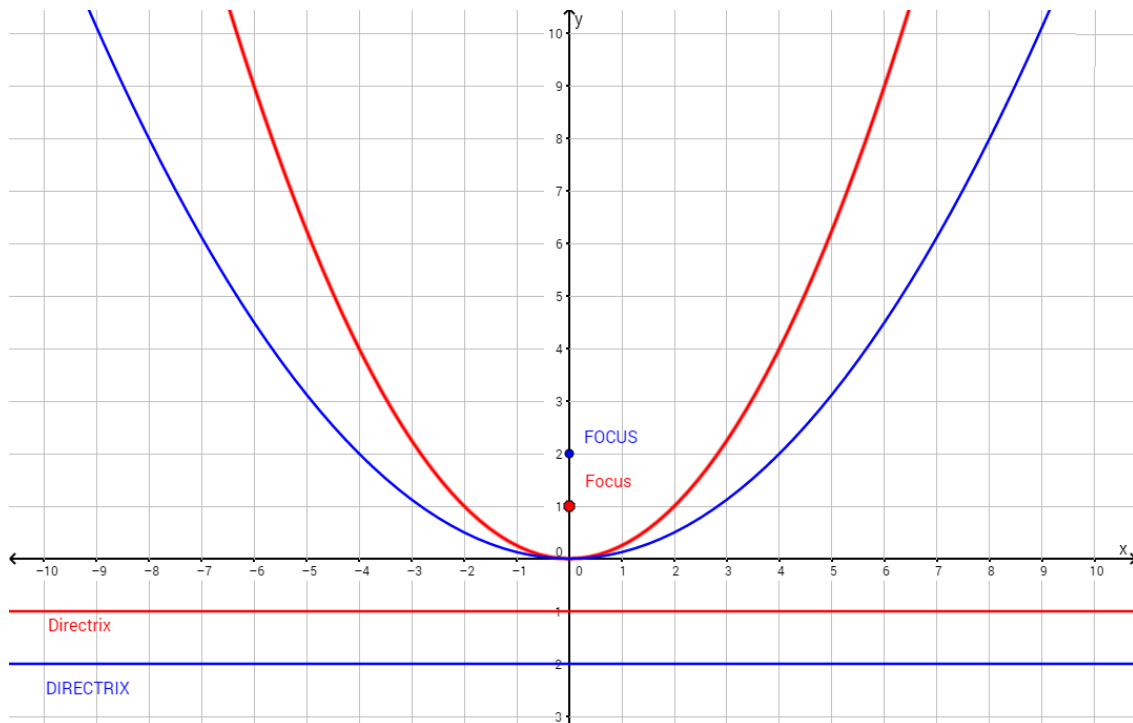


1. Sasha and Keoni already found two versions of the general equation for the parabola in red. In Lesson 5, the goal is to find the general equation for any parabola with a vertex at $(0,0)$. Below, you will consider the parabola in blue. First, what is everything you notice about the two parabolas?
2. Do you think that the equation for the blue parabola will be the same or different from the equation for the red parabola? Try out your idea by evaluating points on each parabola in the given equation. How do you know that the point $(4,2)$ is on the blue parabola besides reading off the coordinates from the grid?

$$x = \sqrt{4y}$$

$$y = \frac{x^2}{4}$$



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