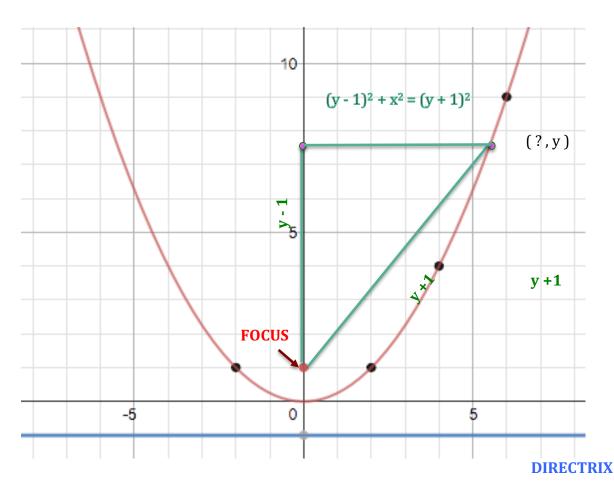
DEFINITION: A parabola is the set of points that are equal distance from the **focus** and the **directrix**.

1. Consider the equation $x = \sqrt{4y}$. What is the meaning of the x? Where is it on the graph? What is the meaning of y? Where do you see the y on the graph?

- 2. What is the purpose of the equation? How would you use it? What does it mean that there are two different variables in the equation?
 - 3. What is the x-value of a point on the parabola with a y-value of 100?



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