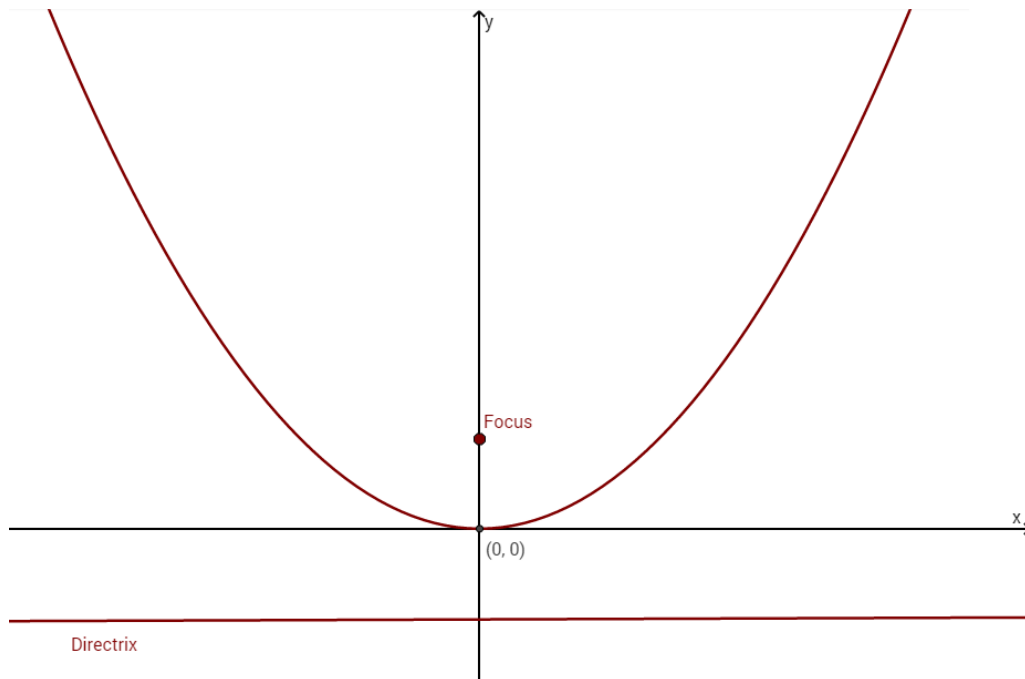


The graph below represents a general parabola with an equation of $y = \frac{x^2}{4p}$

1. Using p as the distance from the vertex to the focus, label the coordinates of the focus and the coordinates of the special point. Add the special point to the graph below.
2. How do you know the coordinates of the “special point”? Use the graph below to justify the coordinates of that point.
3. Using this representation of the special point, make a conjecture about what happens to the parabola as the p -value increases.



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