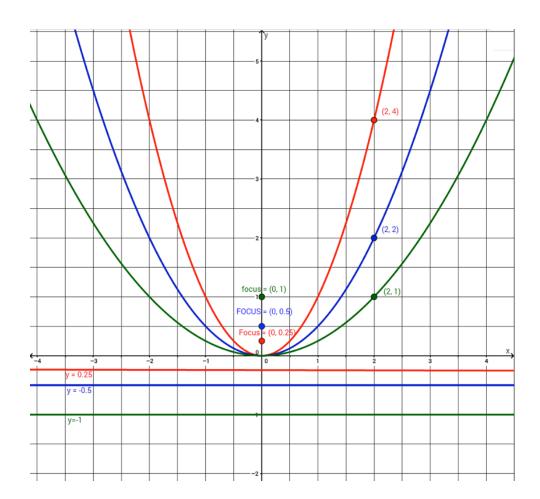
Parabolas: Lesson 7

Episode 2: Exploring

General equation for a parabola with a vertex at the origin: $y=\frac{x^2}{4p}$

Below are the graphs of parabolas for the *p*-values of $\frac{1}{4}$, $\frac{1}{2}$, and 1.

- 1. In the graph below, the labeled points on the parabolas all have the same x-value. Comparing these points, what do you notice about how the x-values change as the p-value increases?
- 2. Using the labels points on the parabola in your argument, justify your claim about how the x-values change as the p-value increases.



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