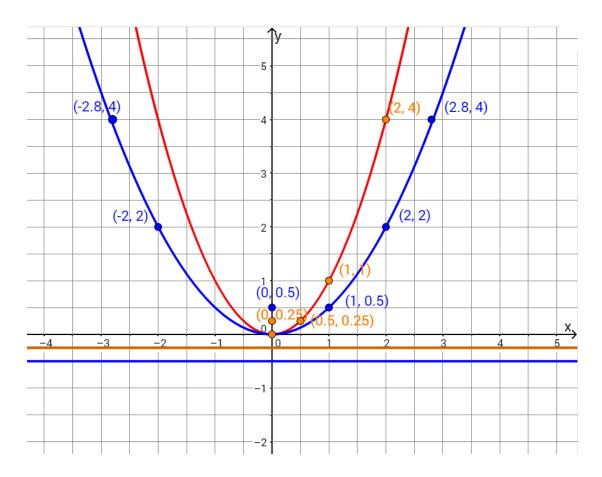
Parabolas: Lesson 6 Episode 3: Reflecting

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

What effect does the value of p have on the graph of the equation of  $y = \frac{x^2}{4p}$ ? Below are the graphs of parabola p values of ¼ and ½ .

- 1. What do you notice about the two graphs?
- 2. What do you notice about the points on the two graphs that have the same y- values?
- 3. What do you notice about the "special points" on the parabola? These are the points that are lined up horizontally with the focus for each parabola.



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