## Lesson 7 Teaching Portal Materials

## Episode Supports

Episode 1: Making Sense

## Episode Description

Sasha and Keoni review the relationship that they discovered between the value of $p$ in the equation $y=\frac{x^{2}}{4 p}$ and the width of the graph of the parabola.

## Focus Questions

For use in a classroom, pause the video and ask these questions:

1. [Pause the video at 1:06]. What does it mean for a parabola to be wider than another parabola?
2. [Pause the video at 3:33]. How does Keoni know where to place the red directrix?

## Supporting Dialogue

Focus students' attention on precision of language:

- What does it mean for one parabola to be skinnier than another?


## Math Extensions

1. On the worksheet, add two more parabolas: one parabola with a $p$-value of $\frac{1}{8}$; and another with a $p$-value of 1.5 .
2. What do you notice about those two additional parabolas?
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