# **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  $y = \frac{x^2}{4p}$  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?

