

Equations of Parabolas

ID: 10220

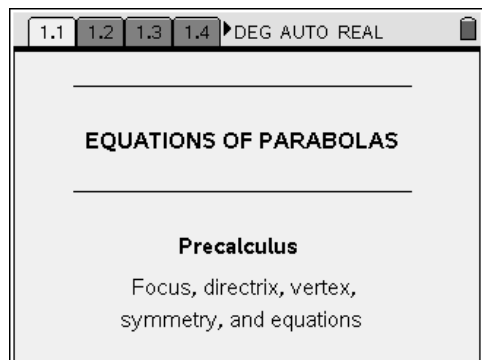
Name _____

Class _____

In this activity, you will explore:

- The focus and directrix of a parabola
- The equation of a parabola

Open the file *PreCalcAct32_Parabolas_EN.tns* on your handheld and follow along with your teacher to work through the activity. Use this document to record your answers.



Problem 1 – Vertex at (0, 0)

	Distance from vertex to focus	Equation of parabola
Page 1.3		
Page 1.6		

Conjecture:

	Distance from vertex to focus	Equation of parabola
Page 1.8		
Page 1.10		

General Equations for Parabola with Vertex at (0, 0):

Problem 2 – Practice

	Focus	Directrix	Equation
Page 2.1			
Page 2.2			

Problem 3 – Vertex at (h, k)

General Equations for Parabola with Vertex at (h, k):