

PreCalc

4.1 Conics: Parabolas

Name: _____

Date: _____

Directions: Put each equation in Standard Form for a parabola. Identify the Vertex, Focus, and Directrix.

1. $x^2 = 4y$

2. $y^2 = -8x$

3. $y^2 + 28x = 0$

Vertex:

Vertex:

Vertex:

Focus:

Focus:

Focus:

Directrix:

Directrix:

Directrix:

4. $4x^2 = 7y$

5. $y^2 - 6y + 17 = 4x$

6. $x^2 + 6y + 18 = 0$

Vertex:

Vertex:

Vertex:

Focus:

Focus:

Focus:

Directrix:

Directrix:

Directrix:

7. $x^2 + 18 = 8x + y$

8. $2x^2 - 12x - y + 18 = 0$

9. $2y^2 - 16y - x + 33 = 0$

Vertex:

Vertex:

Vertex:

Focus:

Focus:

Focus:

Directrix:

Directrix:

Directrix: