

Algebra Trig Conic Section Worksheet

A. PARABOLAS

For each of the following:

- a. put the equation in STANDARD FORM
- b. Give the coordinates of the vertex
- c. Give the coordinates of the focus
- d. Give the equation of the directrix

1. $8x^2 + 24y = 0$

2. $y = -16x^2$

3. $y^2 = -12x$

4. $x = -8y^2$

5. Find the equation of the parabola with vertex $(0,0)$ and directrix $x = -\frac{5}{2}$

6. Find the equation of the parabola with vertex $(0,0)$ and focus $(0,-4)$