

Math 1010 October 18, 2006 Homework 20

1) Consider the parabola $y = kx^2$. If this parabola passes through the point (2, 3), find k.

2) What is the focus of the parabola $y = 3x^2$

3) Find the vertex of the parabola $x^2 - 6x - y + 1 = 0$

4) Graph: $\frac{x^2}{9} + \frac{y^2}{16} = 1$

5) Graph: $9x^2 - 16y^2 = 144$