

## Math 570 - Homework 9

Due Friday, May 5, 2006

- On page 433 of Burton, solve problem 8b.
- On page 539, solve problem 10.
- Use Descartes' Circle Method to find the normal line to the curve

$$y = x^{\frac{3}{2}}$$

at the point (1,1). (Hint: You may wish to use Hudde's Rule to reduce a cubic to a quadratic. Then, use the fact that you know  $x = 1$  is a root of this quadratic.)