

Math 251: Problem Set 4

Due: October 1, 2009

- Section 3.1: 3, 7, 23, 29, 35(Matlab), 45, 53
- Section 3.2: 1, 7, 9, 13, 27, 35(Matlab)
- Section 3.3: 1, 5, 7, 17, 21, 25(Matlab)
- Matlab: Draw a single graph of the function

$$f(t) = t^4$$

and on top of the graph draw the actual derivative. Take the derivative of the derivative and plot that. Continue with this process until the derivatives do not change. Be sure to differentiate between each of the plots. Type **help plot** for a list of options. Also, create a legend for the graph. For help with legends in Matlab, type **help legend**.