

Written Assignment 4 (due 9/24/12)

Exercise 1: Problem 24 from section 2.3 of the textbook.

Exercise 2: Problem 27 from the "Review exercise and problems for chapter two" at the end of the second chapter.

Challenge Problem: This problem will *not* be graded. Using the limit definition, show that the derivative of $f(x) = x^n$ is $f'(x) = n \cdot x^{n-1}$ when n is *any* unspecified positive integer. You will need to use the Binomial Theorem.