

The University of Chicago
Graham School of General Studies

Pre-MBA Mathematics
Course ID: MAMATH

Project 8: Applications of Integration

Spring 2011

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Do Problems 14.7: 1, 11, 13, 17, 25

Do Problems 16.1: 9

- 1.) Find the expected value and variance of each function.

$$f(x) = k \cdot x^2 \quad 0 \leq x \leq 5$$

Also, find the probability that $x \leq 2$