

Math 026L.04 Spring 2002

Quiz #9

Name: _____

You have 20 minutes to complete this quiz which is worth 20 points. Calculators are permitted, but no other aids are allowed. Show all work neatly and in order, and clearly indicate your final answers. Answers must be justified whenever possible in order to earn full credit. When you do use your calculator, sketch all relevant graphs and write down all relevant mathematics.

1. (*16 points*) Suppose that we flip a fair coin four times.

(a) List all possible outcomes in the sample space.

(b) What is the probability that all four flips are tails?

(c) What is the probability that there will be one or fewer heads?

2. (*4 points*) Carefully state both parts of the Fundamental Theorem of Calculus.

(a) Part I:

(b) Part II: