MATH 20C: FUNDAMENTALS OF CALCULUS II QUIZ #5

Name:

Please complete the following problem(s) in the space provided. You may use an approved calculator. You will have 15 minutes to complete the quiz.

Please include all relevant intermediate calculations and explain your work when appropriate.

Problem 1. Compute the area between $y = e^{-x}$ and y = -4x + 1 for x in [0, 1]. Include a graph.

Date: Wednesday, October 15, 2008.

Problem 2. Use the formula

$$FV = \int_{a}^{b} R(t)e^{r(b-t)} dt$$

to find the future value of the income stream R(t) = 200t for $0 \le t \le 10$ at 10%.