## Math 125-Quiz 20<sup>1</sup> October 31, 2011

You have \$10000 to invest. Choose from the following investment opportunities. All interest is compounded continuously.

1. Investing at 5% for 40 years.

2. Investing at 7% for 30 years.

3. Investing at 9% for 20 years.

(Bonus)

1. You are offered the choice of \$100 today or \$110 on Monday, November 7. Which do you take?

2. The same host offers you \$100 payable on October 31, 2012, or \$110 payable on November 7, 2012. Which do you take?

3. Why might your answers to (1) and (2) be mathematically inconsistent?

 $<sup>^1\</sup>mathrm{You}$  are excused to leave when you're finished with this quiz.