NAME: _____

Quiz 9 [10 points]. **Math 111 Sec FC01**

Due at 4:30pm on Tuesday, November 25, 2008

1. (3 points) Let Z represent the standard normal variable. What is $P(-1.1 < Z \leq 2)$?

2. All of the students in the University taking Math 111 take the same exam at the same time, and the grades are normally distributed with a mean of 74 and a standard deviation of 10 points.

   (a) (2 points) Approximately what percentage of the students received a score of 90 or better?

   (b) (2 points) Suppose a student is selected at random from the class. What is the probability that the student scored between 64 and 84?

   (c) (3 points) Suppose one of the Math 111 classes has 33 students in it, with the same approximate distribution of grades. About how many of the 33 students should have scored above 80?