Name _____

Student Number _____

STA 302 f2014 Quiz 10

For homework, you wrote an R function to calculate a confidence interval for a linear combination of regression coefficients, and used it on the SAT data.

1. (3 points) What is the estimate of $\beta_1 - \beta_2$? The answer is a number on your printout. Write the number in the space below. On your printout, circle the number and write "Question 1" beside it.

0.0013073193

2. (7 points) Give the 99% (*not* 95%) confidence interval for $\beta_1 - \beta_2$. Your answer is a set of two numbers, a lower confidence limit and an upper confidence limit. Write the numbers in the space below. On your printout, circle the numbers and write "Question 2" beside them.

(-0.001106270, 0.003720909)

Please attach your printout to the quiz paper. Make sure your name is on the printout. **Your printout must include a listing of your R function.** If we cannot see how your function is defined, the mark on this quiz is zero.