Math 1A
Quiz 11 - November 18, 2009

Name:

1. Find a function $f(x)$ so that $f'(x) = 2e^{3x} + \sec^2(x) + 1/(1+x^2)$. (1 point for each term) (Remember to check your answer by taking the derivative and seeing if it matches.)

2. Suppose that the product of two numbers is 100. What is the smallest possible value of their sum?

3. Find a function $f(x)$ which is tangent to the line $y = -x$ and whose derivative is $f'(x) = x^3$.