

Math 1A Quiz 11
May 2nd, 2008

Name _____ SID _____

1. Let

$$f(x) = \int_{2x}^{3x} \frac{u^2 - 1}{u^2 + 1} du.$$

Find $f'(x)$.

2. Let $g(x) = \sqrt{1 - x^2}$, where $-1 \leq x \leq 1$. Find the average value of $g(x)$ on the interval $[-\sqrt{2}/2, \sqrt{2}/2]$. [Hint: to find the integral, draw a picture!]