Quiz 6

Honor Code: On my honor, I have neither given nor received any aid during this examination.

Instruction: You are not allowed to use a calculator during this examination. You need to show all necessary steps to get credit. This document is **double-sided**.

Name: _____

Problem 1

Evaluate the following integrals.

1. $\int x \cdot \sin(x^2)\, dx$

2. $\int \dfrac{1}{\cos^2(x) \cdot \sqrt{1 + \tan(x)}}\, dx$

3. $\displaystyle\int_0^{\pi/3} \frac{\sin(x)}{1 - \sin^2(x)}\,dx$