Math 151   Name: _____

QUIZ ON CHAPTER 9
MATH 151 – SPRING 2003 – KUNIYUKI
100 POINTS TOTAL

Show all work, simplify as appropriate, and use "good form and procedure" (as in class).
Box in your final answers!
No notes or books allowed. A scientific calculator is allowed.

Evaluate the following integrals.

1) $\int \sin^6 x \cos^5 x \, dx$ (10 points)

2) $\int \tan^5 x \sec^3 x \, dx$ (10 points)

3) $\int x^2 \sin x \, dx$ (15 points)

4) $\displaystyle\int \frac{e^{2x}}{\left(e^x+5\right)^6}\,dx$ (10 points)

5) $\displaystyle\int \sin^{-1} x \,dx$ (10 points)

6) $\int \dfrac{1}{\sqrt{x^2 - 6x}}\, dx$ (20 points)

7) $\int \dfrac{x^2 + 11}{(x-3)(x^2+1)}\,dx$ (25 points)