MATHEMATICS 101 Section 201
Quiz #1, January 16, 2012
Show all your work. Use back of page if necessary. Calculators are not allowed.

Last Name:  First Name:  UBC Stud. No.:

Evaluate each of the following. Explain steps as necessary. (2 points each)

1) \( \int \frac{4 + u^3}{u^4} \, du \)

2) \( \int_{-1}^{1} (2x^3 + 5x^7 + 11x^{13} + 17x^{19} + 23x^{29}) \, dx \)

3) \( \int_{1}^{2} 6x^2 \sqrt{8 + x^3} \, dx \)

4) \( \int \frac{\cos \left( \frac{1}{x^3} \right)}{x^3} \, dx \)

5) \( \frac{d}{dx} \int_{3}^{x^2+1} e^t \, dt \)