Name: _____

Student ID: _____

Bonus Quiz 1

This quiz is graded out of 12 marks. No books, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. *(1 mark each)*

a.
$$\int \cos x \, dx$$

b.
$$\int \sin x \, dx$$

c.
$$\int \sec^2 x \, dx$$

d.
$$\int \sec x \tan x \, dx$$

e.
$$\int \csc^2 x \, dx$$

f.
$$\int \csc x \cot x \, dx$$

g.
$$\int \sec x \, dx$$

h.
$$\int \csc x \, dx$$

i.
$$\int \tan x \, dx$$

j.
$$\int \cot x \, dx$$

k.
$$\int x^n \, dx \text{ where } n \neq -1.$$

l.
$$\int \frac{t^{3/2} + t^{1/2}}{t} \, dt$$