MAT 1332, Fall 2015, Assignment 1
Due Friday October 2 at 2:00 pm.
Late assignments will not be accepted.

Instructor: Aziz Khanchi

Drop it in the box of 1332, found in Math dept (585 King Edward ave, Ottawa, ON): first floor, on the left wall.

Student Name _____ Student Number _____

QUESTION 1. Find the indefinite integral

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

QUESTION 2. Find the definite integral

$$\int_1^2 (\ln x)^2 dx.$$

QUESTION 3. Find the definite integral

$$\int_0^{1/2} \frac{\sin^{-1} x}{\sqrt{1-x^2}} dx.$$

QUESTION 4. Evaluate $\int_0^1 \sqrt{1-x^2}\, dx$ by interpreting it in terms of area.

QUESTION 5.

Find the integral $\int \frac{5x-4}{2x^2+x-1} dx$.