# MAT136H1F – Quiz 1

TUT0201 – R4 (TA: B. Navarro Lameda)

Fall, 2014

FAMILY NAME: ..... GIVEN NAME: .....

STUDENT ID: .....

Mark your lecture and tutorial sections:

| L0101 (morning) | L5101 (evening) | T0101 (M3) | T0102 (R4) | T5101 (T5) | T5201 (R5) |
|---|---|---|---|---|---|

You have 15 minutes to solve the problems. Each problem is worth 2 points. Good luck!

**Question 1.** *Write the limit* $\lim_{n\to\infty} \sum_{i=1}^{n} \frac{2i/n}{1+2i/n}\frac{2}{n}$ *as an integral.*

**Question 2.** *Find* $\int 2^{s^2} s ds$.

**Question 3.** *Let* $h(x) = \int_{x^2}^{-2} \sqrt{t} dt$. *What is* $\frac{d}{dx}h(x)$*?*