MAT136H1F – Quiz 1

TUT0101 – M3 (TA: I. Angelopoulos)

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. *Find* $\displaystyle\int 2^t \cos(2^t + 1)dt.$

Question 2. *Let* $g(x) = \displaystyle\int_{\log(x)}^{1} e^t dt.$ *What is* $\frac{d}{dx}g(x)$?

Question 3. *Let* $f(t) = \dfrac{1}{1 + t^2}.$ *Write down a Riemann-sum for* $f(t)$ *on the interval* $[1, 4]$ *with 3 terms.*