

# MAT136H1F – Quiz 1

TUT5201 – R5 (TA: B. Navarro Lamedada)

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

**Question 1.** Find  $\frac{d}{dx} \int_{\cos(x)}^0 \pi dt$ .

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

**Question 3.** Find  $\int \frac{\arccos(r)}{\sqrt{1-r^2}} dr$ .