



Name: _____

Instructor: Dr. R.A.G. Seely

Calculus II (Maths 201–NYB)

Quiz 2
(version A)

1. Evaluate the following integrals:

(a) $\int \frac{x^2 + x - 1}{(x + 1)(x^2 - 1)} dx$

$$(b) \int_2^{\infty} \frac{dx}{x^2 - 1}$$

2. Evaluate the limit $\lim_{x \rightarrow 0} (1 + \sin 3x)^{(1/x)}$

3. Find the volume of the solid obtained when the region between the curves $y = 2x - x^2$ and $y = x^3$ above the x -axis is rotated about the y -axis.

