

Serial No.: _____ Student Name: _____ Student Number: _____
Instructor: M. Z. Abu-Sbeih Math 102- Q2 Date: 2-11-2009

Problem 1: (10 points) Find the area between the curves $y = x^2 - 1$ and $y = 1 - x^2$ from $x = -1$ to $x = 2$

Problem 2: (15 points) evaluate the integrals:

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

(b) $\int_1^e \frac{dx}{x + x \ln x}$

(c) $\int \frac{2^{x+1}}{3^{2x}} dx$