Mathematics 1100Y – Calculus I: Calculus of one variable
TRENT UNIVERSITY, Summer 2012

Assignment #2
Plot ~~for against~~ with `Maple`
Due on Wednesday, 30 May, 2012.

Before tackling this assignment, please at least skim through the handout *A very quick start with* `Maple` and Professor G.E. Urroz's *Getting started with Maple 10* (there's a link to it on the course web page), and play around with `Maple` a bit. You might also wish to consult `Maple`'s help for details on how to plot graphs of various sorts.

For questions **1** and **2** below please submit a printout of a Maple worksheet(s) as your solution.

1. Use `Maple` to plot the graphs of $y = 1$, $y = x$, $y = \sqrt{x}$, and $y = \sqrt{1 - x^2}$, for $0 \leq x \leq 1$ in each case. *[4]*

2. Use `Maple` to plot the curves given by the equations $x = y^2$, $x = |y|$, $x^2 + y^2 = 1$, and $xy = 1$, for $0 \leq x \leq 1$ and $0 \leq y \leq 1$ in each case. *[4]*

3. Which of the curves you plotted in **1** and **2** are really the same? *[2]*