Honors Calculus, Math 1450- Assignment 6 (due Tuesday 1st November.)

Dr Matthew Nicol, PGH 665

All section references are to Stewart 6th edition. Show all working and write your answers neatly. Staple your work.

Calculating areas and volumes by integration (Chapter 6)

Questions in 6.1 (areas between curves): 18, 22, 24, 28, 34 (use a Riemman sum with $n = 4$ and x_i* taken to be the midpoint of the interval (x_i, x_{i+1}), 40, 48

Questions in 6.2 (volumes by cross-section): 6, 10 , 14, 16, 20, 24, 30, 32, 34, 38, 65

Questions in 6.3 (volumes by shells): 12, 16, 18, 22, 24, 40, 42.