

Honors Calculus, Math 1450- Assignment 6 (due Tuesday November 3rd)

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): 16, 22, 26, 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, 50 (a) (bisects here means divides into two equal areas)

Questions in 6.2 (volumes by cross-section): 4, 8 , 14, 16, 22, 30, 32, 34, 36, 65

Questions in 6.3 (volumes by shells): 10, 14, 18, 22, 24, 26, 40, 42.