Assignment 10 – All 3 parts – Math 242

Due in the discussion section: Thursday, Apr. 16, 2015

These exercises are taken from the textbook (Hass, Weir, and Thomas' *University calculus alternate edition*).

Section 9.4: $6, 10, 12, 22, 24, 28, 34$

Section 9.5: $2, 4, 22, 26, 30, 32$ **and** $6, 10, 12, 18, 24$

Section 9.6: $2, 4, 8, 14, 26, 32, 34$ **and** $46, 48$

(1) Estimate the sum of $\displaystyle\sum_{n=1}^{\infty} \frac{1}{n^4}$ using the first 4 terms. Include bounds on the error.