

Eighth and Ninth Homeworks: MATH 410
Due Wednesday, 22 November 2006

1. Section 4.1: Number 1
2. Section 4.1: Number 5
3. Section 4.1: Number 9
4. Section 4.2: Number 1
5. Section 4.2: Number 6
6. Section 4.2: Number 9
7. Section 4.3: Number 1
8. Section 4.3: Number 8
9. Section 4.3: Number 10
10. Section 4.4: Number 3
11. Section 4.4: Number 5
12. Section 4.4: Number 7
13. Prove Proposition 1.8 on page 6 of the Differentiation notes.
14. Do the exercise on page 14 of the Differentiation notes.
15. Prove Proposition 1.17 (l'Hospital's Rule) on pages 16-17 of the Differentiation notes for the case that f and g satisfies (10) and $L = +\infty$.