

## **Homework 4**

Due Monday, October 2 at 1:00pm

- (1) Lee, Chapter 3, Problem 4, on page 75.
- (2) Lee, Chapter 8, Problem 3, on page 199, but only in the case of a manifold *without* boundary.
- (3) Lee, Chapter 8, Problem 11, on page 201.
- (4) Lee, Chapter 8, Problem 13, on page 201.
- (5) Lee, Chapter 7, Problem 2, on page 171.
- (6) Lee, Chapter 7, Problem 4, on page 171.