

**MATH 505: Differentiable Manifolds
HOMEWORK 5**

You don't need to return this homework, but be sure that at least two of the following problems will be asked in the final exam.

Chapter 12

Problem 1: Lee, 12-8 (Just for 2-tensors).

Chapter 14

Problem 2: Lee, 14-6.

Problem 3: Lee, 14-7.

Chapter 15

Problem 4: Lee, 15-1.

Problem 5: Lee, 15-2.

Problem 6: Lee, 15-5.

Problem 7: Lee, 15-12

Chapter 16

Problem 8: Lee, 16-2.

Problem 9: Lee, 16-4.

Problem 10: Lee, 16-6 (a,d,e).