

DIFFERENTIAL GEOMETRY

HOMEWORK 4

DUE FRIDAY, FEBRUARY 8, 2019

1. THE ASSIGNMENT

You should read our texts. We are talking about the material in *Shifrin* Chapter 1 section 2. Corresponding material is in *do Carmo* Chapter 1, sections 1-5 and 1-6. (You might find it helpful to review *do Carmo* Chapter 1 section 1-4, too.)

You should also do exercises. Here are some suggestions. I will always suggest more exercises than I expect you to do. That way, you won't run out. If you didn't buy *do Carmo's* book, don't worry about those. But I want to help you see relevant material in that book, too, so I'm going to put it on the list.

- From *Shifrin*, do Exercises, section §1.2 #7-14 (on pages 18 & 19)
- From *do Carmo*, do Exercises, section §1-5 #4-6 (on page 24)
- From *do Carmo*, do Exercises, section §1-6 #1-2 (on page 31)