

DIFFERENTIAL GEOMETRY

HOMEWORK 3

DUE FRIDAY, FEBRUARY 1, 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, section 1-5. (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 #1-6 (on page 18)
- From *do Carmo*, do Exercises, section §1-5 #1,2,8,10-12 (on pages 23-27)
- Try the exercises below.