Math 501 Spring 2016

Homework 7

Due: Thursday March 17 at the end of class.

(1) Shifrin p. 75 Problem 7

(2) Shifrin p. 77 Problem 12

(3) Shifrin p. 76 Problem 13

(4) Shifrin p. 76 Problem 18

(5) (Extra Credit)

Given an example of a surface $M^2 \subset \mathbb{R}^3$ and two curves α_1, α_2 starting and ending at the same point, such that parallel translation along α_1 is different from parallel translation along α_2.