

MA 562 - Differential Topology

Homework 12

Due Monday, November 11 by 8:30am (upload to Brightspace)

Recommended practice/review problems (ungraded, please do not submit): 14.4, 14.6, 14.14, 14.17, 14.22, 14.25, 15.4, 15.8, 15.10, 15.12, 15.13, 15.14, 15.16

1. Do Problem 14-1 on page 373 of Lee.
2. Do Problem 14-9 on page 376.
3. Do Problem 15-3 on page 397. (Since we haven't introduced Riemannian manifolds yet, you should probably ignore the hint in the book. You might try to use the results of Ex. 15.13(b) instead, along with, say, stereographic coordinates.)
4. Do Problem 15-12 on page 398.