

## Math. 423 - Homework 6

Due Date: October 23, 2008

Unless otherwise stated, all problems are from *Elementary Differential Geometry (revised 2nd Edition)* by Barret O'Neill

- (1) page 207: 6; 7
- (2) page 216: 2; 4 (for each surface first compute the shape operator and principal curvatures at the origin)
- (3) page 221: 1; 3; 5