

MA641 Differential Geometry

Fall 2010

Problem Set 5

DUE: Friday, 19 November 2010

- (1) do Carmo, page 56, # 1.
- (2) do Carmo, page 57 # 4 parts a) and b). Use the definition of parallel vector field given on page 48 for regular surfaces.
- (3) do Carmo, page 58, # 8 on the hyperbolic plane.
- (4) do Carmo, page 77, #1 parts a) and b).