Global Differential Geometry HW 2

David Glickenstein

September 4, 2007

1) Exercise 2.7.

2) Show that two of the three model spaces for hyperbolic space (Hyperboloid, Poincaré disk, and Poincaré half-space models described on page 38 of J. Lee's book) are isometric (you decide which isometry you want to show).

3) 3-7A

4) 3-8