Assignment #9: Due Monday, 3/10/03

I. Reading:

- Reread do Carmo, Section 3-2 (pages 134–151).
- Read do Carmo, Section 3-3 (pages 153–159 *only*).

II. Required problems:

1. do Carmo, Section 3-2 (pages 151–153), #1. Interpret the problem statement as follows: Let $p \in S$ be a hyperbolic point, and let C be the set of unit vectors in T_pS. If A is an arc of C whose endpoints lie on principal directions and that has no other intersections with the principal directions, show that A intersects exactly one asymptotic direction, and that intersection occurs in the interior of A.

2. do Carmo, Section 3-2 (pages 151–153), #2.

3. do Carmo, Section 3-2 (pages 151–153), #3.

4. do Carmo, Section 3-2 (pages 151–153), #4.

5. do Carmo, Section 3-2 (pages 151–153), #5.

6. do Carmo, Section 3-2 (pages 151–153), #6.

7. do Carmo, Section 3-2 (pages 151–153), #7.

8. do Carmo, Section 3-2 (pages 151–153), #8.