

## Topology II, Newberger, Fall 2005

**Homework: Section 54.** Due Thursday, October 13.

- I.
  - A. Read Example 6 page 340. (Note that  $\mathbb{R}_+$  does not include 0).
  - B. Write a formula for the covering map  $\mathbb{R} \times \mathbb{R}_+ \rightarrow \mathbb{R}^2 - \mathbf{0}$ .
  - C. (10 points) Do problem 4 page 348.
- II.
  - A. Read Example 4 page 339.
  - B. (10 points) Do problem 5 page 348. (Good luck on the sketch.)
  - C. (10 points) Do problem 7 page 348.