MA 426-001/591 M-001 Homework

S. Schecter

Assigned January 17, 2003, Due January 24, 2003

- 1. Let $x \in \mathbb{R}^n$. Show that $\mathbb{R}^n \setminus \{x\}$ is open.
- 2. Sec. 2.1, problem 3.
- 3. Sec. 2.1, problem 4.
- 4. Sec. 2.2, problem 3. Give a proof or a counterexample.
- 5. P. 144, problem 10a. Give a proof or a counterexample.
- 6. Let A be a subset of \mathbb{R}^n . Prove that Int(A) is open.