CSCI 301 — Math Exercises # 5

YOUR NAME HERE

Due date: Midnight, Monday, November 26

Use the pumping lemma to prove that each of the following languages is not regular.

- 1. $\{a^i b^j \mid i \ge j \ge 0\}$
- 2. $\{a^i b^j c^k \mid i = j \text{ or } j = k\}$