CSCI 301 — Math Exercises # 6

YOUR NAME HERE

Due date: Midnight, Friday, November 30

Prove that each of the following languages is context-free by finding a context-free grammar for it.

- 1. $\{a^i b^j \mid i \ge j \ge 0\}$
- 2. $\{a^{4n+5}b^{3n+2}: n \ge 0\}$
- 3. $\{a^i b^j c^k \mid i = j \text{ or } j = k\}$