CSE 322: Introduction to Formal Models in Computer Science

Assignment #4 February 4, 2002

due: Monday, February 11

1. Use closure under intersection to prove that the language

$$A = \{0^n 1^n 2^m \mid m, n \ge 0\}$$

is not regular.

- 2. Exercise 1.17(c).
- 3. Problem 1.23(c).
- 4. Prove that $L = \{a^m b^n \mid m \text{ is a multiple of } n\}$ is not regular.