

CSE 321: Discrete Structures
Assignment #4
October 23, 2002
Due: Wednesday, October 30

Reading Assignment: Read Sections 3.1-3.3 and 4.1.

Problems:

1. Section 3.1, exercise 4.
2. Section 3.1, exercise 10.
3. Section 3.1, exercise 42.
4. Prove that any prime number bigger than 3 is congruent to 1 or 5 modulo 6.
5. Section 3.1, exercise 50.
6. Section 3.1, exercise 68.
7. **Extra Credit:** Let A , B , and C be sets. Use set builder notation to show that $(A - B) - C = (A - C) - (B - C)$.