Subsets

- Read pages 18 through 21 (section 1.2)
- Some key questions to answer:
 - 1. When do we say that a set A is a subset of another set B? How do we denote that?
 - 2. Is a set a subset of itself?
 - 3. Explain in precise terms why if A is a subset of B and B is a subset of C, then A must be a subset of C.
 - 4. Study example 1.5 carefully, make sure you understand it, and produce another example of it.
 - 5. True or False: For any two sets A, B, we must have either that A is a subset of B and that B is a subset of A (or both).
 - 6. How do we denote that a set is not a subset of another set?
 - 7. True or False: If *A* is not a subset of *B*, then none of the elements of *A* are in *B*.
 - 8. Is there a set that is a subset of all other sets?
 - 9. Does the empty set have any subsets?
 - 10. What is the meaning of a "universal set"?
 - 11. List the various kinds of intervals and write them both in interval notation and in set notation.
 - 12. When do we say that *A* is a "proper subset" of *B*?
 - 13. Is there a set without any proper subsets?
 - 14. What is the "powerset" of a set *A*?
- Practice problems from section 1.2 (page 31): 1.10, 1.11, 1.13, 1.17, 1.19