

Homework #18

Follow the separate general guidelines for Parts A,B,C. Be sure to include and label *all four* standard parts a,b,c,d of Part A in what you hand in.

A: To hand in one class period before discussion.

Read Susanna Epp's section 5.2.

Reading questions (RQ) for part a of Part A:

1. What does the author mean by an element argument?
2. Compare the set identities from Theorem 5.2.2 with the logical equivalences from Theorem 1.1.1. Which of the set identities match with which of the the logical equivalences?
3. How does the author say you prove that two sets are equal?
4. How does the author explain one can prove that a given set is empty?
5. What sets have the empty set as a subset?

B: Warmup exercises: Will be available online.

C: Main exercises. Will be available online.