

Math 210, Fall 2015
HW #3, Due 9/21

1. Use the set identity laws (on page 40 of the text) to prove the following set identity:

$$A \cup (A \cup B)' = (A' \cap B)'$$

2. Use set identity laws to prove both of the “redundancy” laws (item (j) on page 40 of the text). You may make use of the following laws in your proof: commutative, associative, distributive, DeMorgan’s, and identity.

3. Do Practice Exercises #6 and #7 from section 5.1 of the text (page 258).