COT 3100, HW 6 assignment, Fall 2013

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due Sep 30, 2013 at 3pm via eLearning

- Problems from section 2.1: 24, 36. CORRECTION: in my first posting of HW6, I had a comment about how to do problem 38. I had meant to assign 38, not 36, but I don't want to change this now. So ignore the comment about problem 38.

- Problems from section 2.2: 4, 12. For problem 12, the general technique for proving that two sets C and D are equal is by showing $C \subseteq D$ and $D \subseteq C$. To prove $C \subseteq D$, you need to prove the implication $\forall x(x \in C \to x \in D)$. In this problem you use this technique for two sets: A and the set expression $A \cup (A \cap B)$.

- Problems from section 2.3: 2, 6, 14, 16, 22, 32. For problem 22, a bijection is the same thing as a 1-to-1 correspondence.

All homework submissions must be done online, via eLearning. Please use PDF files (print to a PDF file if you use MS Word, for example). Or, scan your handwritten homework as a single PDF file (not jpg).