

Phil 225 - Symbolic Logic
HW11 - Week of April 25, 2011

Read Ch. 19

1. Do the clauses of the soundness proof for Disjunction Introduction and for Universal Elimination.
2. Remembering the definition of $m \cdot n$, for cardinal numbers m and n , prove that $\aleph_0 \cdot \aleph_0 = \aleph_0$.
3. Prove that there are the same number of points in 3-dimensional space as there are points on the real line. (Remember that every point in 3-dimensional space can be uniquely represented as an ordered triple of real numbers.)