MATH 300. INTRODUCTION TO MATHEMATICAL REASONING. FALL 2015. WEEK 4 (LECTURES 6,7) PROOFS

1. Reading: Sections 1.4,1.5.

2. Home assignment (Due Monday, September 28) (to submit). Sect.1.4: 4,5(a,b,c,e,i), 7(a,c,h,i,l),8a,9(a,d).

Sect. 1.5: 3b, d, g), 4(a, c), 4(a, c).

Extra problem: 1)All people make some number of handshakes in their life. Prove that the number of people with odd numbers of handshakes is even.

2) Prove that diagonals at a rectangular are equal. Write down the complete logical structure of the proof with all intermediate propositions and theorems.