1. Know how to write the converse/contrapositive/contraconverse of a statement and be able to negate a statement

2. Know how prove simple theorems, for example

Prove that the sum of any two odd numbers is even

3. Be able to write induction and strong induction proofs.

4. Know how to recognize, negate and write statements using existential and/or universal quantifiers.

5. Know how to solve homogeneous and nonhomogeneous first and second order linear recurrence relations.

6. Know how to compute the Binomial Coefficients.

7. Know how to count ordered Samples with and without repetition.

8. Know how to count unordered samples with and without repetition.

Example exercises: Quiz & Homework questions; Section 2.R: PE; Section 3.R: PE #1-11