Introduction to Proof and Problem Solving (Math 100)

Fall 2017, Robert Boltje, UCSC

- 1. Sets
- 2. Logic
- **3.** Counting
- 4. Direct Proof
- **5.** Contrapositive proof
- **6.** Proof by contradition
- 7. Proving non-conditional statements
- 8. Proofs involving sets
- 9. Disproof
- 10. Mathematical induction
- 11. Relations
- **12.** Functions
- 13. Cardinality of sets