

**Math 453: Homework # 7**

**Due Friday, 8 March 2019 in class**

In writing your proofs, fully explain all the important steps. Use full and grammatically correct English sentences. Be clear and concise.

Exercise numbers are from the end-of-section exercise sets in the **2002** reissue of *Elementary Number Theory* by James K. Strayer.

1. (5 points) Exercise Set 3.1, # **8**
2. (5 points) Exercise Set 3.2, # **14 (a)**
3. (5 points) Exercise Set 3.2, # **27 (a) and (b)**
4. (5 points) Exercise Set 3.3, # **32** (You can find the answer in the section at the end of the textbook. However, you need to prove that it is the answer.)
5. (5 points) Exercise Set 3.4, # **47**