

**Math 453: Homework # 13**

**Due Friday, 26 April 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.

*There are hints for items 1, 3, 4, and 5 in the section at the end of the textbook.*

1. (5 points) Exercise Set 5.2, # **16 (a) (b)**
2. (5 points) Exercise Set 5.2, # **17 (a)**
3. (5 points) Exercise Set 5.2, # **18 (a)**
4. (5 points) Exercise Set 5.2, # **22 (a)**
5. (5 points) Exercise Set 5.3, # **26 (b)**