

Directions:

- Print out this piece of paper and use it as a cover sheet. Write your name in the upper right hand corner.
 - Your homework should be stapled and each problem should occur in order.
 - Do not hand in scratch work.
 - Homework is due at the start of class.
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1. PROBLEMS

1. Textbook exercises: 11.1, 11.2, 11.5
 2. Let $n \in \mathbb{Z}$ with $n > 1$. Prove that if $a \nmid n$ for all $1 \leq a \leq \sqrt{n}$, then n is prime.
 3. Textbook exercises: 11.15, 11.19, 11.32, 11.34
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