HOMEWORK 3

Chapter 3-3: #1.
Chapter 5-1: #1, 3.
Chapter 5-2: #1, 7, 9, 13, 16, 21.

CHALLENGE PROBLEM: Prove this converse of Wilson’s Theorem: if $m > 4$ is a composite number then $(m - 1)! \equiv 0 \pmod{m}$. (Note: This isn’t true for $m = 4$, so make sure that this fact is reflected in your proof.)