Always justify your answers, even if the question does not explicitly say so! Write your own solutions, independently of anyone else.

Core Problems: Everyone must turn these problems in.
I. Sec. 6.1 # 1 acegi, 2 abc, 4 (Try to compute the order of the group without listing all of its elements; be sure to explain how you counted. See also #25.)
II. Sec. 6.1 # 7, 9, 10, 12, 17.

Advanced Problem: Due Wed. Jan. 27. Students registered for 6010 must turn these problems in. They count for extra credit for 4010 students, but anyone hoping to get an ‘A’ in 4010 should attempt at least a few advanced problems. Advanced problems are due one week after the Core problems from the same assignment, unless announced otherwise. Please hand in Advanced Problems separately from Core Problems.
III. Sec. 6.1 # 23 (In b., “in general” means: Do not assume gcd(m, n) = 1, but keep all the other hypotheses.)