

Problem Set 6

Due: 9:00 a.m. on Wednesday, February 24

Instructions: Carefully read Section 2.8 of the textbook. Submit your solutions to the following problems. Be sure to adhere to the expectations outlined on the sheet *Guidelines for Problem Sets*. Submit your solutions in-class or to Dr. Cooper's mailbox in the Department of Mathematics.

Exercises: From pages 107–115 of the textbook.

1. Let a, b , and c be positive integers such that $\gcd(a, b) = 1$ and $\gcd(a, c) = 1$. Prove that $\gcd(a, bc) = 1$.
2. Section 2.8 #2.21, page 111