Lewis & Clark Math 215

Problem Set 7

Due: Monday, February 24th

Instructions: Answer each of the following questions and provide a justification for your answer. In addition to the points assigned below, you will receive 0-2 writing points for the entire problem set.

- 1. a. Find the greatest common divisors of the following pairs of integers.
 - i. 52134, 312
 - ii. -324, 552
 - b. Express the GCD's that you found in part (a) as a linear combination of the associated pairs of integers.
- 2. Prove that for all positive integers a, b, and c, that if a|c, b|c, and GCD(a, b) = 1, then ab|c.

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