MATH 313 HOMEWORK 5, FALL 2015

DUE AT THE BEGINNING OF CLASS ON THURSDAY, SEPTEMBER 24

One goal for this course is for you to develop your skill in effectively communicating mathematics. With this in mind, you should clearly write up your solutions. Solutions with little or no justification will receive little or no credit.

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(1) Make sure you have read through section 8 Part 2 of the Gallian textbook.

(2) On pages 156 - 157, do problems 24, 46, 48, and 62.

(3) On pages 174-178, do problems 12, 34, 36, 52, 53, and 60.

(4)
- State a clear and concise definition of greatest common divisor (gcd) of two non-zero integers.
- State a clear and concise definition of least common multiple (lcm) of two non-zero integers.
- Prove Joe's assertion that $\gcd(m, n) \times \text{lcm}(m, n) = mn$.