## MATH 3370 – Number Theory Fall 2012

## Instructions

- Answer each question completely; justify your answers.
- This assignment is due at 17:00 on Wednesday October 17th in Assignment Box #43.
- 1. Exercise 2.28.
- 2. Exercise 2.31.
- 3. Exercise 3.1.
- 4. Exercise 3.4, part (d).
- 5. Exercise 3.6.
- 6. Prove that a number is divisible by 3 if and only if the sum of its digits is divisible by 3.
- 7. Exercise 4.4.
- 8. Exercise 4.6.