

**MATH 512 HOMEWORK-1 DUE AT THE BEGINNING OF CLASS ON THURSDAY,  
JANUARY 29.**

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. All your work should be clear and grammatically correct, in addition to mathematically sound. Solutions with little or no justification will receive little or no credit.

- (1) Read chapter 1 in *Integers, polynomials and rings*.
- (2) From chapter 1, do *Exercises*: 1.3, 1.4, and 1.5.