

MA 310 001, SPRING 2011.

- Problem solving lunch, Monday, 12 noon Mathskeller.
- Wednesday, 2 March 2011, Polya, page 99–103, “Examine your guess”
- Please begin looking at the National School Standards as posted on the course website <http://www.math.uky.edu/~rbrown/courses/ma310.s.11/>. Select one of the numbered standards *e.g.* G-CO #13 on page 76. Develop a series of problems to introduce students to that standard. Our goal is to have students work out examples, use these examples to help formulate general principles and then explain why these principles are true. I expect this to be a difficult assignment, thus I ask that you hand in a first draft followed by a revised set of problems.

For Wednesday, 9 March 2011, please pick one of the standards and prepare three problems that help a student to begin mastering the standard. Some of your problems may be drawn from other sources, but please give appropriate credit if you do this.

Begin with a simple example and work towards problems that help a student to discover a general principle or apply the mathematics in the standard to an interesting problem. After this first draft is returned, you will be asked to prepare a longer series of problems.

- Due Friday, 4 March 2011. Prepare problems #6 and 10 from §1.4 to be handed in.

February 24, 2011