About Test 1 on Wednesday, September 27, 2017

The test will consist of 5 problems.

The first one will have ten yes/no questions, each worth 1 point max.

The questions may be historical (material in "History of Mathematics in Large Nutshell", and historical sections in Stillwell), as well as mathematical.

The next four problems will be strictly mathematical. Each of them will be worth 2 points max. Some of them may offer extra credit. You may be able to choose the four problems out of more presented.

You should be familiar with the following topics:

- Euclidean Algorithm;
- Finding the greatest common divisor using Euclidean Algorithm;
- Unique Factorization of Integers (Fundamental Theorem of Arithmetic);
- Rational solutions of polynomial equations;
- Finding all solutions of cubic equations, provided one of them is rational;
- Finding one solution of cubic equations using Cardano Rules;
- Regular polyhedra and Euler formula for solid polyhedra;
- Geometric Constructions

The relevant sections in Stillwell;

Chapter 1, 2.1, 2.2, 2.3, 2.6, 3.1, 3.3, 4.1, 4.5, 5.2, 6.5.
Supplementary notes on Number Theory, rational solutions of polynomial equations and solutions of cubic equations will be posted before Monday, September 25, 2017. Monday, 9/25/2017 class will be a review.