Math 46 Homework Assignment (02/01 – 02/06)
Assignment will be collected on 02/13 next Wednesday during the class.

Midterm will be on Feb. 22 Friday in the class—on chapters 1 and 2.

**Key notions introduced this week:**

1. Numerical approximations for the first order equations;
2. Tangent line of the solutions and Euler method, steps;
3. Taylor series and numerical solutions;
4. Homogeneous Linear equations;
5. Linear equations with constant coefficients;
6. Solutions of second order homogeneous linear equations with constant coefficients;
7. Superposition principles;
8. Wronskians, fundamental set of solutions.

**Homework problems:**

§2.7. 1, 2.
§3.1. 1, 2, 5, 6, 9.
§3.2. 1, 2, 4.