Week # 4 - Topics

§ 2.3   Some basic mathematical models (mixture problems, falling and/or rising objects, Newton's Law of Cooling).

§ 2.4   Differences between linear and nonlinear equations; **Existence & Uniqueness Theorem** (linear v. nonlinear).

§ 2.5   Autonomous Equations.

§ 2.6   Exact Equations (**EXE**), potential functions, integrating factors.