

Exam 1: Topic List

Chapter 1: 1.1-1.3, 1.6, 1.8-1.9

- Models
- Slope Fields
- EP's and Phase Lines
- Separation of Variables
- Method of Undetermined Coefficients (Lucky Guess)
- Integrating Factor Method

Chapter 2: 2.1-2.3

- Models
- Direction Fields
- Decoupled Systems

Chapter 3: 3.1-3.5

- Linear Systems and Principle of Superposition
- Real, Distinct, Non-zero Eigenvalues
- Complex Eigenvalues
- Zero and Repeated Eigenvalues