

## Week # 7 - Topics

§ 3.2 Linear differential operators, Superposition Principle, Existence & Uniqueness Theorem (for  $2^{nd}$  order linear equations), Wronskians, general solution, Fundamental Set of Solutions (**FSS**), **Abel's Theorem**.

§ 3.3 Complex characteristic roots; brief review of  $\mathbb{C}$ .

§ 3.4 Repeated characteristic roots; Reduction of Order Method (**ROM**).

§ 3.5 Nonhomogeneous equations; Undetermined. Coefficients (**UC**).

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