

Expectation checklist - Module 9

At the completion of this module, you should:

- Understand the definitions, and namely
 - linear combination,
 - linear independence,
 - fundamental set of solutions,
 - determinant of 2×2 and 3×3 matrices, and
 - Wronskian;
- if given a set of solutions to a homogeneous linear DE be able to determine if they
 - are solutions to the DE,
 - are linearly independent,
 - and form a fundamental set of solutions for the DE; and
- if given a fundamental set of solutions for a homogeneous linear DE, be able to provide the general solution.

You will be assessed on your understanding of these concepts:

- within the homework,
- on the quizzes, and
- later, on the exam.

Coming up next, we:

- Fundamental sets of solutions for *nonhomogeneous* linear DEs!