

# Midterm 2 Checklist

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You should know how to complete the following items for the midterm. Check off which items in which you feel confident. Spend extra time reviewing the unchecked items.

- Know how to find the characteristic equation for a homogeneous linear equation with constant coefficients and solve for the general solution
- Know how to find the Wronskian of a set of functions
- Know how to determine if a set of functions forms a fundamental solution to a differential equation
- Know how to find the general solution to an equation using the method of reduction of order
- Know how to solve a second order nonhomogeneous linear equation with constant coefficients using the method of undetermined coefficients
- Know how to solve a second order nonhomogeneous linear equation with constant coefficients using the method of variation of parameters.