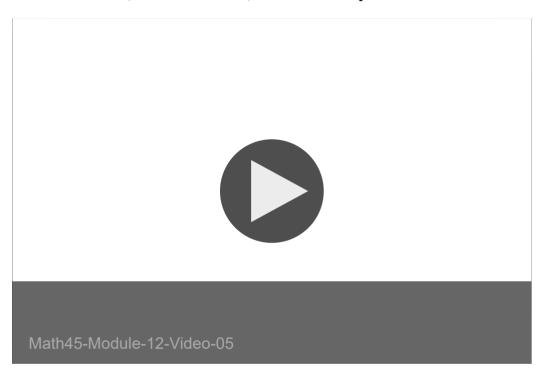# Higher order homogeneous linear DEs with constant coefficients A↓

Tackling higher order homogeneous linear differential equations with constant coefficients, follows the same method as for the 2nd-order case. The problem, however, becomes the additional complexity of finding the roots of the higher degree polynomials that result.

Discussion, comments, and examples:

Math45-Module-12-Video-05

WeBWorK module 12 exercises:

- Problems 7

References:

- **Finding roots of polynomials** ↗ **(https://en.wikipedia.org/wiki/Root-finding_algorithms#Roots_of_polynomials)**
- **Wolfram alpha** ↗ **(https://www.wolframalpha.com/)**