

Differential Equations – Day 11 In Class

Professor:

Dr. Joanna Bieri

joanna_bieri@redlands.edu

For each of the following problems:

1. Find the roots of the Characteristic Equation
2. Construct the solution to the ODE - explain how you pieced it together!

GROUP 1

$$y^{(4)} - 8y^{(3)} + 16y'' = 0$$

GROUP 2

$$y'' - 6y' + 13y = 0$$

GROUP 3

$$y'' + 5y' + 5y = 0$$

GROUP 4

$$9y^{(3)} + 12y'' + 4y' = 0$$