

HOMEWORK #6 (Chapter 3 Higher -Order Differential Equations)

1. Find the general solution of the given higher-order differential equation

$$y''' + 3y'' + 3y' + y = 0 \quad (\text{Problem 21})$$

2. solve the given boundary-value problem.

$$y'' - 2y' + 2y = 0, \quad y(0) = 1, \quad y(\pi) = 1 \quad (\text{Problem 42})$$