- Q1. Verify that $xe^{(3x/2)}$ is solution of y'' 3y' + (9/4)y = 0.
- Q2. $\{e^{3x}, e^{4x}\}$ are complimentary solutions of the differential equation y'' 7y' + 12y = 0. Are these solutions linearly independent?
- Q3. Find general solution of y'' + 6y' + 9 = 0.
- Q4. Find general solution of 4y'' 12y' + 9y = 0.
- Q5. Find general solution of y'' + 25y = 0
- Q6. Using given solutions in Q2, of the differential equation y'' 7y' + 12y = 0, find a particular solution satisfying y(0) = 2, and y'(0) = 3.