

Spring 2018-2019
Math 342
Applied Mathematics

Feb 12

Convert each of the IVP to a Volterra integral equation

1. $y' - y = x, y(0) = 0$

2. $y'' + y = 0, y(0) = 1, y'(0) = 0$

3. $y'' + 5y' + 6y = 0, y(0) = y'(0) = 1$

4. $y''' + 4y' = x, y(0) = y'(0) = 0, y''(0) = 1$

5. $y^{iv} - y = 0, y(0) = 1, y'(0) = 0, y''(0) = -1, y'''(0) = 0$