Spring 2018-2019
Math 342
Applied Mathematics

Apr 1
Solve the given Volterra integral equation by the successive approximations method.

1. $y(x) = 342 - \int_0^x (x-t)y(t)dt$

2. $y(x) = 342 + x + \int_0^x (x-t)y(t)dt$

3. $y(x) = 1 - \int_0^x 342ty(t)dt$

4. $y(x) = e^x + \int_0^x 4y(t)dt$

5. $y(x) = 1 - x - \frac{1}{2}x^2 + \int_0^x (x-t)y(t)dt$