

Islamabad Campus

Program: BSc Semester – Spring 2019

> MTCA-183 Calculus-II

Quiz – 3 Marks: 20

Handout Date: 14/05/2019

Question # 1:

Verify by substitution that $y_1 = e^x$ and $y_1 = e^{-x}$ are solution of the ODE y'' - y = 0, solve for the initial value problem y(0) = 6 and y'(0) = -2.

Solution:

Question # 2:

Solve the IVP. Show the details of your work.
$$y'' + y' - 6y = 0, y(0) = 10, y'(0) = 0$$

Solution:

Good Luck