

GDB Problem: 01
Subject: Numerical Analysis (MTH603)
Total Marks: 10
Weight-age : 08
Lectures Covered: 14-18
Due Date: Thursday, December 08, 2016

Problem:

Using the definition of Forward Difference Operator $\Delta f(x) = f(x+1) - f(x)$,
prove that:

$$\Delta^2 \log x = \log \left(\frac{x(x+2)}{(x+1)^2} \right)$$