

Serial No.: _____ Student Name: _____ Student Number: _____
Instructor: M. Z. Abu-Sbeih Math 102- Q5A Date: 18-8-2010

Problem 1: Find the interval of convergence of the series:

$$\sum_{n=0}^{\infty} \frac{(x-1)^n}{(n+1)^2}$$

Problem 2: Find the Maclaurin series representation of the function:

$$f(x) = \int_0^x \frac{\ln(1-t)}{t} dt$$

Serial No.: _____ Student Name: _____ Student Number: _____
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Problem 1: Find the interval of convergence of the series:

$$\sum_{n=0}^{\infty} (-1)^n \frac{(x-3)^n}{(n+1)}$$

Problem 2: Find the Maclaurin series representation of the function:

$$f(x) = \int_0^x \frac{\ln(1+t) dt}{t}$$