

Serial No.: \_\_\_\_\_ Student Name: \_\_\_\_\_ Student Number: \_\_\_\_\_

Instructor: M. Z. Abu-Sbeih

Math 102- Q6

Date: 10-6-2009

**Show all your work. No credits for answers not supported by work. Name any test you use.**

1. Find the Maclaurin series of  $f(x) = \cos x$ .

2. Find the Maclaurin series of  $f(x) = \sin^2 x$

(Write the answer as a sum)

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3. Find the Maclaurin series of  $f(x) = \cos x$ .

4. Find the Maclaurin series of  $f(x) = \cos^2 x$

(Write the answer as a sum)