

Serial No.: _____ Student Name: _____ Student Number: _____

Instructor: M. Z. Abu-Sbeih

Math 102- Q3

Date: 20-4-2009

Show all your work. No credits for answers not supported by work**Evaluate each of the following integrals**

1. $\int \cos(\ln x) dx$

2. $\int \frac{\cos^3 x}{\sqrt{1 + \sin x}} dx$

3. $\int \sqrt{9x - x^2} dx$

4. $\int \frac{2x^2 + x + 1}{(x - 1)(x^2 + 1)} dx$

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Show all your work. No credits for answers not supported by work**Evaluate each of the following integrals**

1. $\int \sin(\ln x) dx$

2. $\int \frac{\sin^3 x}{\sqrt{1 + \cos x}} dx$

3. $\int \sqrt{4x - x^2} dx$

4. $\int \frac{x^2 + 2x + 3}{(x + 1)(x^2 + 1)} dx$