

Serial No.: _____ Student Name: _____ Student Number: _____
Instructor: M. Z. Abu-Sbeih Math 102- Q3 Date: 24-7-2011

Show all your work. No credits for answers not supported by work.

Problem: Evaluate the integrals

(a) $\int \cos(1 + \sqrt{x}) dx$

(b) $\int \frac{\tan^3 x dx}{\sqrt{\sec x}}$

(c) $\int \sin^2 x \cos^2 x dx$

(d) $\int \sqrt{x(4-x)} dx$

Serial No.: _____ Student Name: _____ Student Number: _____
Instructor: M. Z. Abu-Sbeih Math 102- Q3B Date: 24-7-2011

Show all your work. No credits for answers not supported by work.

Problem: Evaluate the integrals

(a) $\int e^{(1+\sqrt{x})} dx$

(b) $\int \frac{\sec^4 x dx}{\sqrt{\tan x}}$

(c) $\int \sin^2 x \cos^2 x dx$

(d) $\int \sqrt{6x - x^2} dx$