King Fahd University of Petroleum and Minerals Department of Mathematics & Statistics

Math102.27 Spring 2012 (112) Quiz (3)

Name:		-
ID #:	Serial#:	

1. Evaluate the following integrals:

$$(a)\int_{1}^{e}xlnx\ dx$$

$$(b)\int\limits_0^{ln4}\frac{e^x}{\sqrt{e^{2x}+9}}\;dx$$

$$(c)\int_{0}^{\frac{\pi}{4}}4tan^{3}x\ dx$$

$$(d) \int \frac{\sin x \sin 2x}{1 + \sin^2 x} \, dx$$