

King Fahd University of Petroleum and Minerals

Department of Mathematical Sciences

Math 102 (calculus II)

Quiz 3(A) Semester II, 2004-2005 (042)

Name:.....

ID #:.....

Sec#:.....

(1) Evaluate each of the following.

(15pts)

(i) $\int_0^{\pi} \frac{\sin(x)}{1+\cos^2(x)} dx.$

(ii) $\int_0^{63} \frac{dx}{\sqrt{x+1} + \sqrt[3]{x+1}}.$

(iii) $\int_0^{\pi} \sqrt{\sin(x) - \sin^3(x)} dx.$

Dr. M. R. Alfuraidan

King Fahd University of Petroleum and Minerals

Department of Mathematical Sciences

Math 102 (calculus II)

Quiz 3(B) Semester II, 2004-2005 (042)

Name:.....

ID #:.....

Sec#:.....

(1) Evaluate each of the following.

(15pts)

(i) $\int_0^{\sqrt[4]{3}} \frac{x \tan^{-1}(x^2)}{1+x^4} dx.$

(ii) $\int_0^{63} \frac{dx}{\sqrt{x+1} + \sqrt[3]{x+1}}.$

(iii) $\int_0^{\pi} \sqrt{\sin(x) - \sin^3(x)} dx.$

Dr. M. R. Alfuraidan