

King Fahd University of Petroleum and Minerals

Department of Mathematical Sciences

Math 101 (calculus I)

Quiz 3 (A) Semester I, 2004-2005 (041)

Name:.....

ID #:.....

Sec#:.....

(1) Use the definition to find $f'(x)$ if $f(x) = \frac{2}{\sqrt{4-x}}$.

(5pts)

(2) Find y' if $y = \sin^3(\cos^2(\frac{x-5}{2}))$.

(5pts)

(3) Find $\frac{d^2y}{dx^2}$ if $2x^3 - 3y^2 = 8$.

(5pts)

Dr. M. R. Alfuraidan

King Fahd University of Petroleum and Minerals

Department of Mathematical Sciences

Math 101 (calculus I)

Quiz 3 (B) Semester I, 2004-2005 (041)

Name:.....

ID #:.....

Sec#:.....

(1) Use the definition to find $f'(x)$ if $f(x) = x + \frac{9}{x}$.

(5pts)

(2) Find y' if $y = [1 + \tan^4(\cos(\frac{x}{12}))]^3$.

(5pts)

(3) Find $\frac{d^2y}{dx^2}$ if $x^{\frac{2}{3}} + y^{\frac{2}{3}} = 1$.

(5pts)

Dr. M. R. Alfuraidan