$KFUPM-Department\ of\ Mathematics\ and\ Statistics-Term\ 173$

MATH 101

QUIZ # 3: Code 1 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
_1		
Find $\frac{dy}{dx}$ if $y = \sin(x) e^{-x} + \frac{\tan^{-1}(x)}{1 + x^2}$		

Exercise 2 (5 points)

Find
$$\frac{dy}{dx}$$
 if $x\cos(y) + y\cos(xy) = 1$

KFUPM – Department of Mathematics and Statistics – Term 173

MATH 101

QUIZ # 3: Code 2 (Duration = 20 minutes)

NAME:	ID:	Section:

Exercise 1 (5 points)

Find
$$\frac{dy}{dx}$$
 if $y = \cos(x)e^{-x} + \frac{\cot^{-1}(x)}{1+x^2}$

Exercise 2 (5 points)

Find
$$\frac{dy}{dx}$$
 if $x\sin(y) + y\sin(xy) = x$