$KFUPM-Department\ of\ Mathematics\ and\ Statistics-Term\ 132$

MATH 102
QUIZ # 1 Code 1 (Duration = 15 minutes)

NAME:		ID:	Section:
Exercise 1 (5 points)			
$\text{If } F(x) = \int_{2x}^{3x} \sqrt{1}$	$+t^2 dt$, the	en $F'(1)$ is equal to:	
$a/\sqrt{5}(3\sqrt{2}-2)$			
$b/\sqrt{2}$			
$c/3\sqrt{10} - \sqrt{5}$			

Exercise 2 (5 points)

 $e/\sqrt{10}-\sqrt{5}$

The value of the definite integral $\int_0^{\pi} \frac{(\cos x)e^{\sin x}}{1 + e^{2\sin x}} dx$ is:

a/ 0	
b/ 1	
$c/\frac{\pi}{4}$	
d/ -1	
$e/\frac{-\pi}{4}3$	

KFUPM – Department of Mathematics and Statistics – Term 132

MATH 102
QUIZ # 1 Code 2 (Duration = 15 minutes)

NAME:	_ ID:	Section:
Exercise 1 (5 points)		
The value of the definite integral $\int_0^{\ln 3} \frac{e^x}{1 + e^x} dx$ is:		

a/ln2	
b/ln4	
c/ln3	
d/3	
e/e^3-1	

Exercise 2 (5 points)

If
$$g(x) = \int_{\cos x}^{\sin x} \sqrt{1 - t^2} dt$$
 for $x \in [0, \frac{\pi}{2}]$, then $g'(1)$ is:

a/ 1	
b/ 0	
c/ -1	
$d/\frac{\pi}{2}$	
$e/\frac{2}{\pi}$	