KFUPM – Department of Mathematics and Statistics – Term 151 MATH 102 QUIZ # 1 Code 1 (Duration = 20 minutes)

NAME:	_ ID:	_ Section:
Exercise 1 (4 points)		
Let g be a continuous function such that $g(1) = g(2)$	$= 4 \text{ and let } F(x) = \int_{x}^{2x} tg(t)dt$. Find $F'(1)$

Exercise 2 (6 points)

Find the area bounded by the curve
$$y = \frac{\sin x}{1 + \cos x}$$
, $x = 0$ and $x = \frac{\pi}{2}$

KFUPM – Department of Mathematics and Statistics – Term 151 MATH 102

QUIZ # 1 Code 2 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (6 points)		
Find the area bounded by the curve $y = \frac{\cos x}{1 + \sin x}$,	$x = \pi$ and $x = \frac{\pi}{2}$	

Exercise 2 (4 points)

Let g be a continuous function such that g(1) = 4 and let $F(x) = \int_{x}^{x^{2}} tg(t)dt$. Find F'(1)