King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 101   Quiz 5

Name : .... **ID #**.................................... Serial #: ....

Question 1 Given that $f(2) = -3,\quad f'(2) = -2,\quad g(2) = 4,$ and $g'(2) = 7$, find $H'(2)$, where

$$H(x) = \frac{g(x)}{1 + f(x)g(x)}.$$

Question 2 Find the first derivative of the function

$$f(t) = 2^{3t} + (t + csc^3(t))^4.$$