

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 101 - QUIZ 2

Name:

Student ID #:

Question. Given the function

$$f(x) = \frac{e^x(x^2 + \sqrt{x})}{x^3 + 3x + 2}$$

,

- (1) Calculate $f'(1)$.
- (2) Find the equation of the tangent line to f at 1.
- (3) Find the equation of the normal line to f at 1.

Your Solution.