

King Fahd University of Petroleum & Minerals  
Department of Math and Stat  
Math 132 Semester 141 - Quiz 2

Name \_\_\_\_\_ ID No. \_\_\_\_\_

1) Differentiate:  $f(x) = \frac{3x^2 + 6}{5x^2 - 2x}$

2) Find  $y'$  if  $y = \sqrt{\sqrt{x} + 1}$ .

3) By direct use of the definition of a derivative, find  $\frac{d}{dx}[f(x)]$  if  $f(x) = x^2 + 4$ .