KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 260 - QUIZ 1

Name:

Student ID #:

Find the explicit solution of the following initial value problems:

(1) $\dfrac{dy}{dx} = \dfrac{3x + 2y}{3x + 2y + 2}$, $y(-1) = -1$.

(2) $(x^2 + 2y^2)\dfrac{dy}{dx} = xy$, $y(-1) = 1$.

(3) $x^2\dfrac{dy}{dx} - 2xy = 3y^4$, $y(1) = 1/2$.

Your Solution.