Math 202-112   Quiz 2   (A)

Name:..ID#:..........................Sec#...............Ser#............

_____

Q.1: Solve the initial value problem $y^2 dx - 2(xy + y^4)dy = 0$, $y(1) = 1$. (Hint: check if it is linear in x or in y)

Q.2: Solve the differential equation $\dfrac{dy}{dx} + \dfrac{\sin^2 y}{\sec^2 x} = 0$.

Q.3: Solve the differential equation $(3x^2 + 2y^2)dx + (2xy)dy = 0$