

King Fahd University of Petroleum & Minerals
Department of Mathematics & Statistics
Math 202-16 Semester 162 Quiz # 2

Name: _____ ID#: _____

Exercise: Solve the differential equation

$$\frac{dy}{dx} - xy = 0$$

Exercise: Is the differential equation

$$2xydy - x^2dx = 0$$

exact ? If not, find an integrating factor $\mu(x)$, then solve the differential equation.