KFUPM – Department of Mathematics and Statistics – Term 101 MATH 202 QUIZ # 1 Code 1 (Duration = 20 minutes)

NAME:______ ID:_____ Section: _____

Exercise 1 (9 points)

Solve the differential equation $\frac{dy}{dx} = y^2 - 3y + 2$ and find all singular solutions.

Exercise 2 (6 points) Solve the differential equation $x \frac{dy}{dx} - y = x$ (show all your steps)

KFUPM - Department of Mathematics and Statistics - Term 101 **MATH 202 QUIZ #1 Code 2** (Duration = 20 minutes)

NAME:______ ID:_____ Section: _____

Exercise 1 (9 points)

Solve the differential equation $\frac{dy}{dx} = y^2 - 5y + 6$ and find all singular solutions

Exercise 2 (6 points) Solve the differential equation $y \frac{dx}{dy} - x = y$ (show all your steps)