KFUPM – Department of Mathematics and Statistics – Term 152

MATH 202

QUIZ # 2 Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Solve the differential equation $ydx = (ye^{y} - 2x)dy$ [**Hin**t: $\int y^{2}e^{y}dy = (y^{2} - 2y + 2)e^{y} + c$]

Exercise 2 (5 points) Solve the differential equation $x^{2}y' + 2xy = 5y^{4}$.

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MATH 202

QUIZ # 2 Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Solve the differential equation $xdy = (xe^x - 2y)dx$ [**Hint**: $\int x^2 e^x dx = (x^2 - 2x + 2)e^x + c$]

Exercise 2 (5 points) Solve the differential equation $x^2 y' + 3xy = 6y^4$.