KFUPM – Department of Mathematics and Statistics – Term 162

MATH 202

QUIZ # 2 Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (4 points)

Use the method of exact equations to solve the differential equation $(1-2xy)dx-(x^2-2y)dy=0$

Exercise 2 (6 points) Use suitable substitutions to solve the differential equation

$1+y'+x(x+y)=x(x+y)^2$.

KFUPM – Department of Mathematics and Statistics – Term 162

MATH 202

QUIZ # 2 Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (4 points)

Use the method of exact equations to solve the differential equation $(1-3x^2y)dx-(x^3-2y)dy=0$

Exercise 2 (6 points) Use suitable substitutions to solve the differential equation

$1-y'+x(x-y)=x(x-y)^2$.