

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Solve the differential equation $(3x^2y - 3x^2)dx - dy = 0$ and find all singular solutions if any.

Exercise 2 (5 points)

Solve the differential equation $y' - \sin(x)y = -\sin x$
(show all your steps)

KFUPM – Department of Mathematics and Statistics – Term 172
MATH 202
QUIZ # 1 Code 2 (Duration = 20 minutes)

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Exercise 1 (5 points)

Solve the differential equation $(3xy^2 - 3y^2)dy - dx = 0$
and find all singular solutions if any.

Exercise 2 (5 points)

Solve the differential equation $y' + \cos(x)y = \cos x$ (show all your steps)