KFUPM – Department of Mathematics and Statistics – Term 162 MATH 202 QUIZ # 1 Code 1 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
Solve the differential equation (y	$(x^2x^2 - x^2)dx - dy = 0$ and find all sin	ngular solutions.
Exercise 2 (5 points)		

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

KFUPM – Department of Mathematics and Statistics – Term 162 MATH 202 QUIZ # 1 Code 2 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
Solve the differential equation $(y^2x - 4x)dx - dy$	=0 and find all singular solution	s.

Exercise 2 (5 points) Solve the differential equation $xy' + y = x \cos x$ (show all your steps)