KFUPM – Department of Mathematics and Statistics – Term 152 **MATH 202 QUIZ # 3 Code 1** (Duration = 20 minutes)

ID:

NAME:	_ ID:	Section:

Exercise 1 (4 points)

Solve the differential equation $y''-4y = x + \sin x$

Exercise 2 (6 points)

Solve the differential equation $x^2y''-2xy'+2y = x^3 \sin x$

KFUPM – Department of Mathematics and Statistics – Term 152 MATH 202 QUIZ # 3 Code 2 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (4 points)		
Solve the differential equation $y''-9y = x + $	$-\cos x$	

Exercise 2 (6 points)

Solve the differential equation $x^2y''-2xy'+2y = x^3\cos x$