KFUPM – Department of Mathematics and Statistics – Term 121

MATH 260

QUIZ # 3 Code 1 (Duration = 20 minutes)

NAME:_____

ID:_____ Section: _____

Exercise 1 (6 points)

Solve the differential equation $y'''-3y''+4y'-2y=e^x$ [**Do not find the Constants for** y_p].

Exercise 2 (4 points)

Find the homogeneous differential equation whose solution is

$[c_1+c_2\cos x+c_3\sin x]e^x$.

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QUIZ # 3 Code 2 (Duration = 20 minutes)

NAME:_____

ID:_____ Section: _____

Exercise 1 (6 points)

Solve the differential equation $y'''-6y''+9y'-10y=e^{x}$ [**Do not find the Constants for** y_p].

Exercise 2 (4 points)

Find the homogeneous differential equation whose solution is

$[c_1+c_2\cos x+c_3\sin x]e^{2x}$.