

King Fahd University of Petroleum & Minerals
Department of Math & Stat
Math-202, Section # 2
QUIZ NO.3

Name: _____

ID #: _____

1) By using the Method of Variation of Parameters, Solve

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$$4y'' + 36y = \csc 3x$$

2) Given the D.E. $y''' - 4y'' + 4y' = 5x^2 - 6x + 4x^2e^{2x} + 3e^{5x}$ /10

a) Find the complementary solution y_c

b) Find the Annihilator of the Right hand side of the D.E.

c) Determine the form of the particular solution (Do not Evaluate the constants).

3) Solve $x^3 y''' + 5x^2 y'' + 7xy' = -8y$

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