

Kingdom of Saudi Arabia King Abdulaziz University

Faculty of Science --Mathematics Department
First Mid-Term Exam (90 Minutes) - (Math 204).
21/4/1434 H - 3/3/2013 A.D.
Second Semester
1433-1434 H

Model: B

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| Student's I.N.: | า วัสเมื่อร่า | 1.78.1 | Serial Number: |
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| Q_1 | Q_2 | Q_3 | Q_4 | Q_5 | Total Marks (25) |
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(Answer the following questions)

1 Prove that the I.V.P. $\frac{dy}{dx} = \sqrt{xy}$, y(2) = 1 has unique solution.

[5 Marks]

$$(2y^2 + 3x)dx + 2xy dy = 0$$

$$\frac{dy}{dx} = \frac{x^2 + y^2}{xy - x^2}$$

$$\frac{dy}{dx} = \tan^2(x+y)$$

The population of a community is known to increase at a rate proportional to the number of people present at time t. If an initial population P_0 has doubled in 5 years, how long will it take to triple? [5 Marks]

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