

KFUPM--Term 161

Math 260

Quiz 1(a)

Time: 25 minutes

Date: 11-10-2016

Name	ID #	Sr #	Sec.	Marks:- /10
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Q 1. Find the general solution of the DE: $\frac{dy}{dx} = \frac{(x-1)y^5}{x^2(2y^3-y)}$.

Q2. Solve IVP: $\frac{dy}{dx} = (1 - y) \cos x$, $y(\pi) = 2$.

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Quiz 1(b)

Time: 25 minutes

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Name	ID	Sr #	Sec.	Marks:- /10
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Q 1. Solve the IVP: $x \frac{dy}{dx} - y = 2x^2y$, $y(1) = 1$.

Q2. Find the general solution of the DE: $x \frac{dy}{dx} - 4x^4 = (3 - 2x)y$

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Quiz 1(c)

Time: 25 minutes

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Q1 . Find the general solution of the DE: $y^3 \frac{dy}{dx} = (y^4 + 1) \cos x$.

Q2. Solve IVP: $(x^2 + 4) \frac{dy}{dx} + (3y - 1)x = 0, \quad y(0) = 1$.

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Quiz 1(d)

Time: 25 minutes

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Q 1. Solve the IVP: $2y \frac{dy}{dx} = \frac{x}{\sqrt{x^2-16}}$, $y(5) = 2$.

Q2. Find the general solution of the DE: $x \frac{dy}{dx} = 3y + x^4 \cos x$.