MTH622 MID TERM SOLVED PAPER BY VURANK

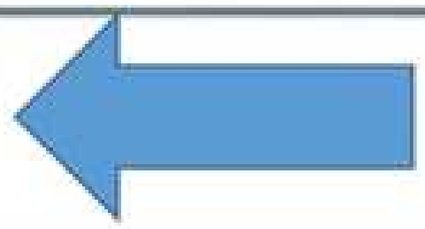
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Question # 6 of 10 (Start time: 03:32:38 PM, 13 June 2019) Total Marks: 1

Greens theorem applies only to _____ vector fields

Select the correct option

- one dimensional
- two dimensional
- three dimensional
- None of these



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Question # 11 of 16 (Start time: 04:00:12 PM, 13 June 2014) Total Marks: 1

Which of the following theorem convert line integral to surface integral?

Select the correct option

O	Stoke's theorem only
O	Gauss divergence and Stoke's theorem
O	Green's theorem only
O	Stoke's and Green's theorem

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Question # 6 of 10 | Start time: 03:29:23 PM, 13 June 2019) Total Marks: 1

The rate of change of tangential velocity of an object traveling in a circular orbit or path is known as

Select the correct option

- Normal acceleration
- Tangential acceleration
- Rectangular acceleration
- None of these

Question # 5 of 10 (Start time: 03:45:51 PM, 13 June 2019) Total Marks: 1

Applications of Green's theorem are meant to be in

Select the correct option

- One dimensional
- Two dimensional
- Three dimensional
- Four dimensional

The normal component of acceleration is zero when motion of particle is

O	curvilinear
O	rotational
O	rectilinear
O	translation

Question # 5 of 10 (Start time: 03:54:22 PM, 13 June 2019) Total Marks: 1

The Stoke's theorem uses which of the following operation?

Select the correct option

- Divergence
- Gradient
- Curl
- Laplacian

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Question # 6 of 10 (Start time: 03:32:38 PM, 13 June 2019) Total Marks: 1

Greens theorem applies only to _____ vector fields

Select the correct option

O	one dimensional
O	two dimensional
O	three dimensional
O	None of these



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Question # 1 of 10 (Start time: 03:40:27 PM, 13 June 2019) Total Marks: 1

The radial component of velocity for a particle moving in circular path is

Select the correct option

●	constant
○	radius itself
○	variable
○	zero

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 03:42:58 PM, 13 June 2019) Total Marks: 1

The Stoke's theorem can be used to find which of the following?

Select the correct option

O	Surface area enclosed by a function in the given region
O	Volume enclosed by a function in the given region
O	Linear distance
O	Curl of the function

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The Stoke's theorem uses which of the following operation?

- Divergence
- Gradient
- Curl
- Laplacian

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Greens theorem applies only to _____ vector fields

- one dimensional
- two dimensional
- three dimensional
- None of these

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The point, through which the whole weight of the body acts, irrespective of its position, is known as

- Moment of inertia
- Center of gravity
- Center of percussion
- Center of mass

Displacement of a body is a _____ quantity

- scalar
- vector
- scalar and vector
- none of these

Which of the following is NOT an application of Green's theorem?

- Centroid of plane figures
- Volume of plane figures
- Area surveying
- Solving two dimensional flow integrals

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Which of the following is the simplest type of motion along a straight line path.

- plane motion
- rectilinear motion
- curvilinear Motion
- none of these

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The normal component of acceleration is zero when motion of particle is

- curvilinear
- rotational
- rectilinear
- translation

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According to Gradient Theorem if f is an open, two sided surface bounded by a simple closed curve C and

$\vec{a}$

Area, conservative field, partial derivatives, then

Select the correct option

O	$\iint_{\cdot}$ (٣ ٨ ...)
O	$\iint_{\cdot}$ (٣ ٠ ...)
O	$\iint_{\cdot}$ (٣ ٠ ٨ ...)
O	$\iint_{\cdot}$ (٣ ٠ ٤ ...)

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The Green's theorem can be related to which of the following theorems mathematically?

- Gauss divergence theorem
- Stoke's theorem
- Euler's theorem
- Leibnitz's theorem

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When a particle moves along a straight path, then the particle has

- tangential acceleration only
- centripetal acceleration only
- both tangential and centripetal acceleration
- none of these

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The Stoke's theorem uses which of the following operation?

- Divergence
- Gradient
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- Laplacian

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The normal component of acceleration is zero when motion of particle is

- curvilinear
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- translation

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The Stoke's theorem can be used to find which of the following?

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Which of the following is NOT an application of Green's theorem?

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Which of the following theorem convert line integral to surface integral?

- Stoke's theorem only
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- Green's theorem only
- Stoke's and Green's theorem

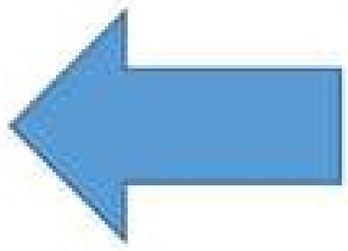
When a particle moves along a straight path, then the particle has

- O tangential acceleration only
- O centripetal acceleration only
- O both tangential and centripetal acceleration
- O none of these

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Applications of Green's theorem are meant to be in

○	One dimensional
○	Two dimensional
○	Three dimensional
○	Four dimensional



Which of the following is the simplest type of motion along a straight line path.

- plane motion
- rectilinear motion
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- none of these

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The Stoke's theorem can be used to find which of the following?

- Surface area enclosed by a function in the given region
- Volume enclosed by a function in the given region
- Linear distance
- Curl of the function

Question # 6 of 10 (Start time: 03:44:37 PM, 11 June 2019)

Both double and triple integrals can be used to calculate

Select the correct option

O	area under the curve
O	length of curve
O	volume of the given object
O	None of these

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The normal component of acceleration is zero when motion of particle is

- curvilinear
- rotational
- rectilinear
- translation

The radial component of velocity for a particle moving in circular path is

●	constant
○	radius itself
○	variable
○	zero

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Which of the following is NOT an application of Green's theorem?

- Centroid of plane figures
- Volume of plane figures
- Area surveying
- Solving two dimensional flow integrals

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Displacement of a body is a _____ quantity

- scalar
- vector
- scalar and vector
- none of these

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Question # 5 of 10 (Start time: 01:32:38 PM) 15 June 2019)

Total Marks: 1

Greens theorem applies only to _____ vector fields

- one dimensional
- two dimensional
- three dimensional
- None of these



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The radial component of velocity for a particle moving in circular path is

- constant
- radius itself
- variable
- zero

The point, through which the whole weight of the body acts, irrespective of its position, is known as

- Moment of inertia
- Center of gravity
- Center of percussion
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The rate of change of tangential velocity of an object traveling in a circular orbit or path is known as

- Normal acceleration
- Tangential acceleration
- Rectangular acceleration
- None of these

According to Gradient, Theorem if S is an open, two sided surface bounded by a simple closed curve C, and

F

has continuous first partial derivatives, then

Select the correct option

O	$\iint_{\cdot}^{\cdot} (\nabla \times F) \cdot dS$
O	$\iint_{\cdot}^{\cdot} (\nabla \cdot F) \cdot dS$
O	$\iint_{\cdot}^{\cdot} (\nabla \cdot F) \cdot dS$
O	$\iint_{\cdot}^{\cdot} (\nabla \cdot F) \cdot dS$

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Question # 7 of 10 (Start time: 07:01:31 PM, 12 June 2019)

Which of the following is NOT an application of Green's theorem?

Select the correct option

- Centroid of plane figures
- Volume of plane figures
- Area surveying

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The Green's theorem can be related to which of the following theorems mathematically?

- Gauss divergence theorem
- Stoke's theorem
- Euler's theorem
- Leibnitz's theorem

[illegible]

[illegible]

[illegible]

[illegible]

○	[illegible]
○	[illegible]
○	[illegible]
●	[illegible]

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Classical mechanics deals with the

- Statics objects only
- microscopic objects only
- macroscopic objects only
- None of these

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MTH622 Quiz#1 MTH622

Question # 3 of 10 (Start time: 03:02:43 PM, 12 June 2019)

Displacement of a body is a _____ quantity

Select the correct option

- scalar
- vector

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Question # 5 of 10 (Start time: 09:03:12 PM, 12 June 2019)

Both double and triple integrals can be used to calculate

Select the correct option

○	area under the curve
○	length of curve
○	volume of the given object

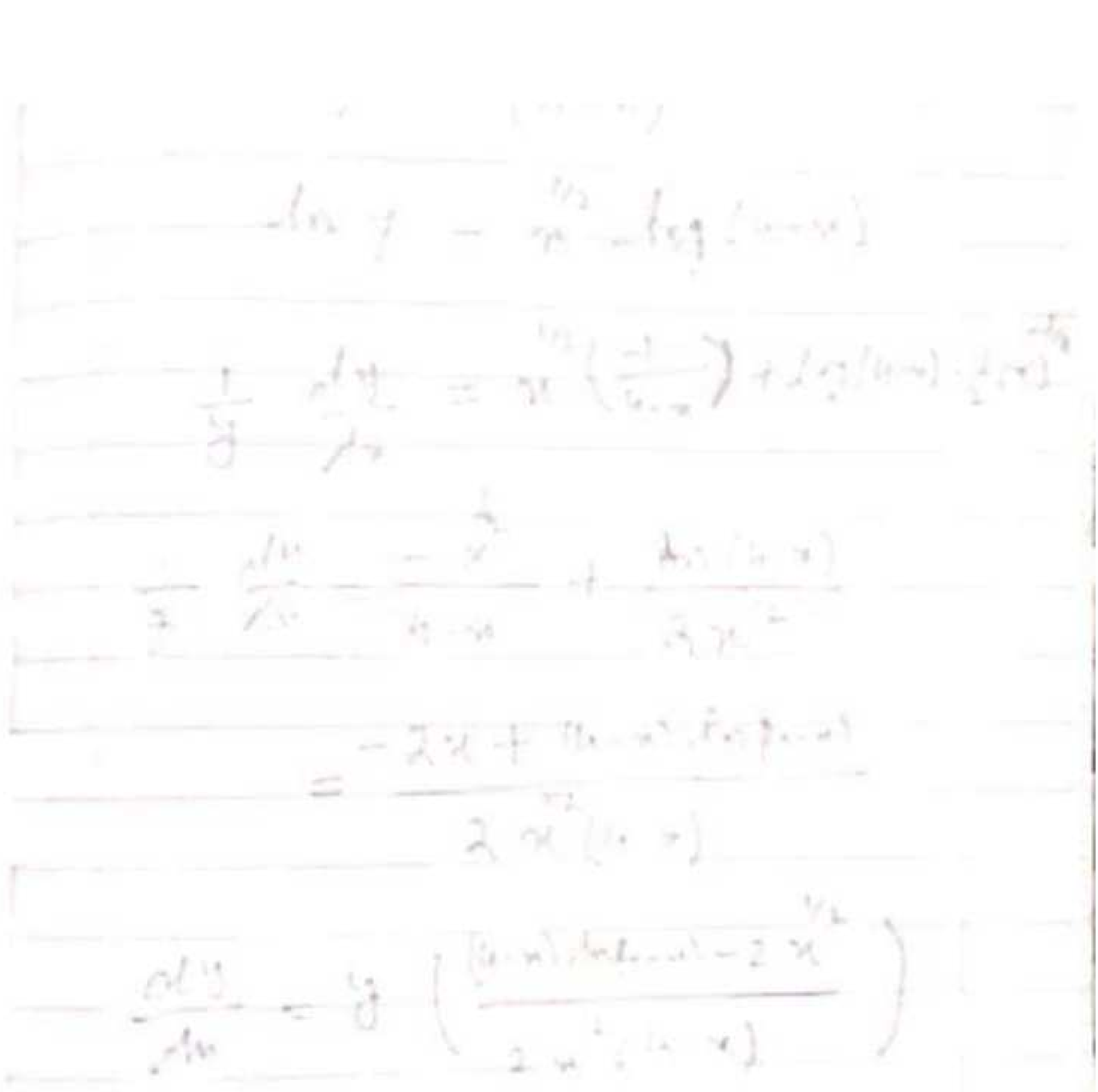
$$y = (4 - x)^{1/2}$$

$$\frac{dy}{dx} = \frac{1}{2}(4-x)^{\frac{1}{2}-1} \cdot \frac{d}{dx}(4-x)$$

$$= \frac{1}{2}(4-x)^{-\frac{1}{2}}(-1)$$

$$= -\frac{1}{2(4-x)^{1/2}}$$

$$= -\frac{1}{2\sqrt{4-x}}$$





Math 622 assign

★ State Green's Theorem

★ Normal for $3(t)y+z=4$

★ If $A=x^2i-2xyj+z^2k$ then find curl of A

★ Z mall and momentum given that Force field find karni thi

★ A ki value given thi and diffrence theorem

Mth622
Mcqs easy thy tough ni thy
1. Divergence theorem ka question
2. Stocks theorem ka question tha
3. Irrotational proof tha 1 vector ko
4. Newton 2nd law of motion
Baqi 2 question me proof thy 2 choty choty

Mth622
Objectives conceptual
1.newton second law of motion
2.del. A=O AND del*A=0 ...
Justify
2.A was given.. Find del. A
3.FOrce find mas and acceleration givn thi.
4.line integral find
5.Stoks law

Mth622
Surface integrl k 2 que
Ik directional derivative

4. Newton 2nd law of motion
Baqi 2 question me proof thy 2 choty choty

Mth622
Objectives conceptual
1.newton second law of motion
2.del. A=O AND del*A=0 ...
Justify
2.A was given.. Find del. A
3.FOrce find mas and acceleration givn thi.
4.line integral find
5.Stoks law

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Surface integrl k 2 que
Ik directional derivative
Ik koi normal surface wala tha
Volume integralk long que tha
Ik green theroem sa que tha
Write statemt of green theroem

(VISIT VURANK FOR MORE)

(KEEP REMEMBER IN YOUR PRAYERS)

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