Question # 6 of 10 (Start time: 03:32:38 PM, 13 June 2011) 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 # 10 of 10 (Start time: 04:00:12 PM, 13 June 2019) 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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The rate of change of tangential velocity of an object traveling in a circular orbit or path is known as

Select the correct option

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

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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

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

O	curvilinear
O	rotational
O	rectilinear
O	translation

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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

O	Divergence
O	Gradient
O	Curl
O	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: 03:40:37 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
O	radius itself
O	variable
O	zero

Click to Save Answer & Move to Next Question

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Select the correct option

○	Continuous derivatives
○	Discrete derivatives
○	Continuous partial derivatives
○	Discrete partial derivatives

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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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Select the correct option

O	Continuous derivatives
O	Discrete derivatives
O	Continuous partial derivatives
O	Discrete partial derivatives

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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

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Displacement of a body is a _____ quantity

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

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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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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

Scanned by CamScanner

Question # 7 of 10 (Start time: 03:36:14 PM) 13 June 2019)

Total Marks: 1

According to Stokes' theorem if S is an open, two sided surface bounded by a simple closed curve C and

$\vec{A}$

has continuous first partial derivatives, then

Select the correct option

Answered Multi Questions

O	$\iint_{S} (\nabla \times \vec{A}) \cdot d\vec{S}$
O	$\iint_{S} (\nabla \cdot \vec{A}) \cdot d\vec{S}$
O	$\iint_{S} (\nabla \times \vec{A}) \cdot d\vec{S}$
O	$\iint_{S} (\nabla \times \vec{A}) \cdot \vec{A}\, dS$

Next Question | Save & Finish Later

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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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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
- Curl
- Laplacian

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

- curvilinear
- rotational
- rectilinear
- translation

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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

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

- Stoke's theorem only
- Gauss divergence and Stoke's theorem
- Green's theorem only
- Stoke's and Green'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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Applications of Green's theorem are meant to be in

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

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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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Select the correct option

O	Continuous derivatives
O	Discrete derivatives
O	Continuous partial derivatives
O	Discrete partial derivatives

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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

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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

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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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Greens theorem applies only to _____ vector fields

O	one dimensional
O	two dimensional
O	three dimensional
O	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

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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

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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

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Question # 7 of 10 (Start time: 01:34:14 PM) 13 June 2019) Total Marks: 1

According to Gauss' Theorem if S is an open, non-self-surface bounded by a simple closed curve C and

$\vec{A}$

has continuous first partial derivatives, then

Select the correct option

O	$\iint_{\cdot}$
O	$\iint_{\cdot}$
O	$\iint_{\cdot}$
O	$\iint_{\cdot}$

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Question # 7 of 10 (Start time: 09:04:31 PM, 12 June 2019)

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

Select the correct option

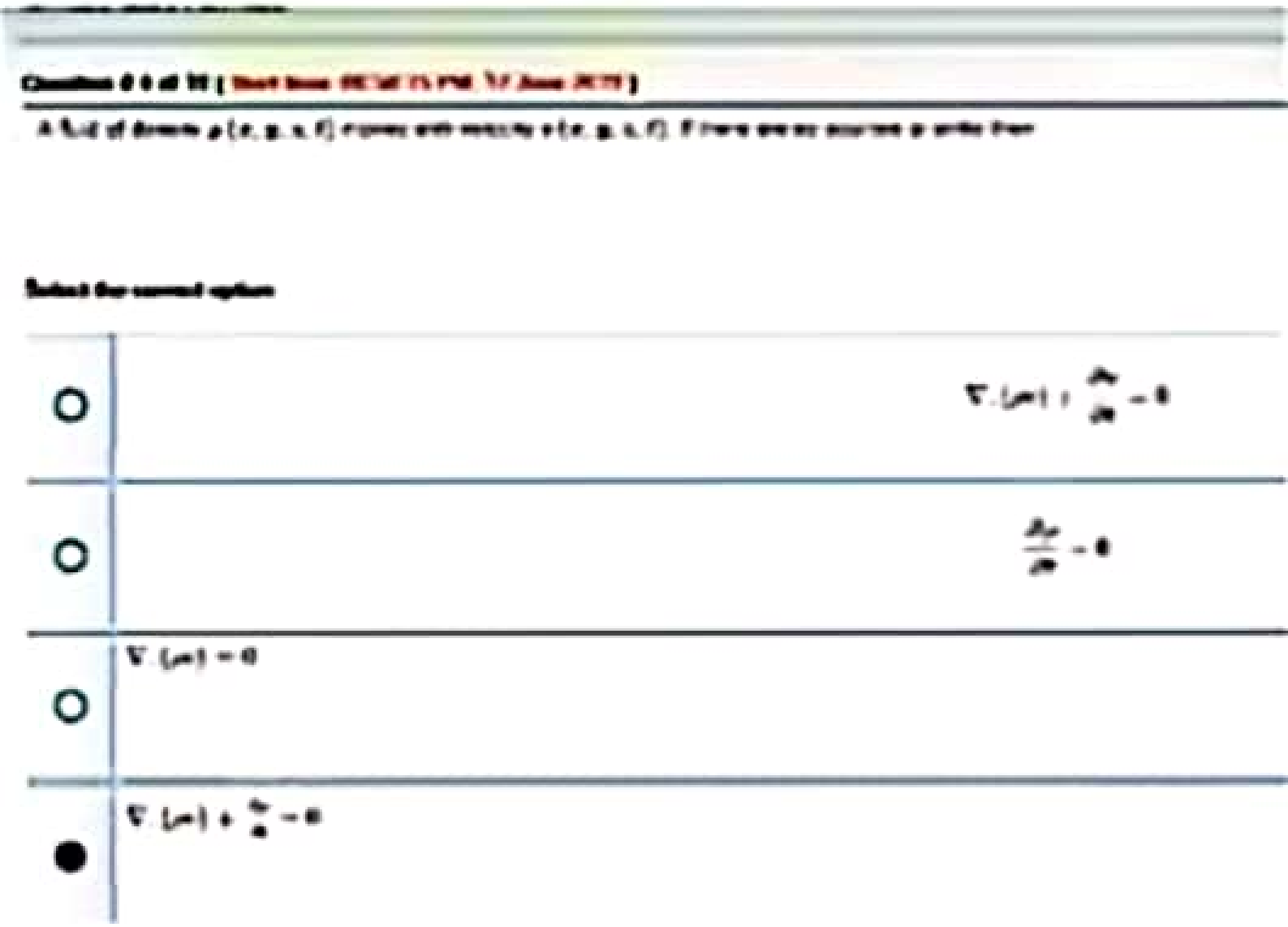
- ○ Centroid of plane figures
- ● Volume of plane figures
- ○ Area surveying

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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

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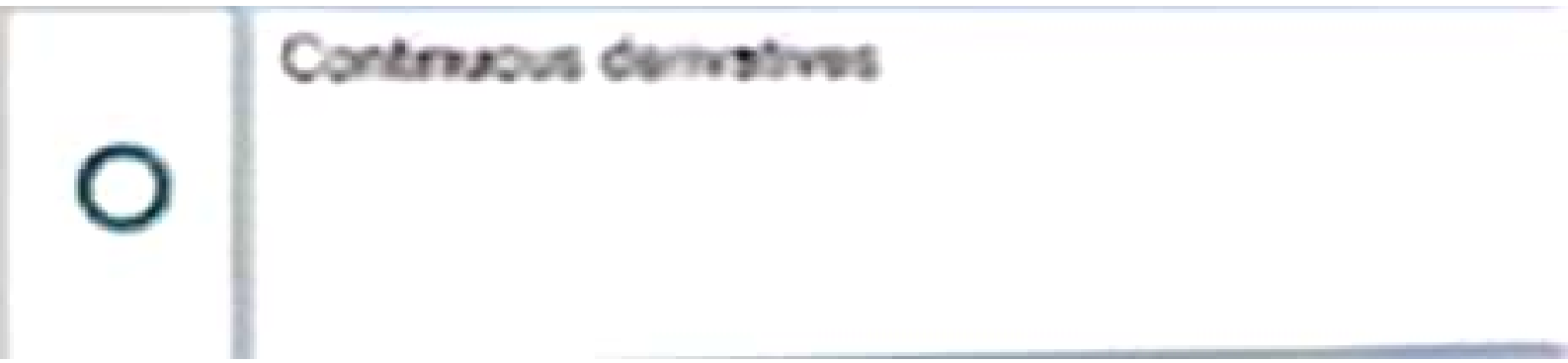


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Classical mechanics deals with the

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

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MTH622 Quiz1 MTH622

Question # 6 of 10 (Start time: 09:04:19 PM, 12 June 2019)

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

Select the correct option

- ○ Gauss Divergence theorem
- ● Stoke's theorem
- ○ Euler's theorem
- ○ Leibniz's theorem

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[redacted]

[redacted]

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

Select the correct option

○	Moment of inertia
●	Centre of gravity
○	Centre of percussion

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Select the correct option

○	[illegible]
○	[illegible]

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[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

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[redacted]

Question # 1 of 10 ([redacted])

Applications of Green's theorem are meant to be in

Select the correct option

- ○ One dimensional
- ● Two dimensional
- ○ Three dimensional
- ○ [redacted]

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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

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

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

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

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

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

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

$$\frac{1}{y}\frac{dy}{dx} = x^{1/2}\left(\frac{-1}{1-x}\right) + \ln(1-x)\cdot\frac{1}{2}x^{-1/2}$$

$$\frac{1}{2}\frac{dy}{dx} = \frac{-x^{1/2}}{1-x} + \frac{\ln(1-x)}{2x^{1/2}}$$

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

$$\frac{dy}{dx} = y\left(\frac{(1-x)\ln(1-x) - 2x}{2x^{1/2}(1-x)}\right)$$

$$\frac{dy}{dx} = (1-x)^{x^{1/2}}\left(\frac{(1-x)\ln(1-x) - 2x}{2x^{1/2}(1-x)}\right)$$

$$= \frac{\sqrt{x}-1}{(1-x)\ln(1-x) - 2\sqrt{x}}$$

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[redacted]

[redacted]

[redacted]

Math 622 25/5/18

★ State Green's Theorem

★ Normalize $3i+2j+3k=4$

★ If $A = xy^2i - 2xyj + zyk$ then find curl of A

★ K, mass and momentum given that Force field find karni thi

★ A ki value given thi and divergence theorem

AHMAD M-SC(MATHS)
GOLD MEDALIST
ahmad2018@gmail.com

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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

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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
Ik koi normal surface wala tha
Volume integralk long que tha
Ik green theroem sa que tha
Write statemt of green theroem

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