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Question	# 3 of 5 (Start time: 11:08:22 AM, 03 March 2022 )	Total Marks: 1
The Mo	oment of inertia of a hollow sphere having mass M and radius a is given by	
L		
Select the	e correct option	Reload Math Equations
0	$I = \frac{1}{2}Ma^2$	
0	$I = Ma^2$	
0	$I = \frac{2}{5}Ma^2$	
0	$I = \frac{2}{3}Ma^2$	

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MTH622:QUIZ NO.3 Quiz Start Time: 11:06 AM, 03 March 2022.

Question # 4 of 5 (Start time: 11:09:44 AM, 03 March 2022.)

Consider a right circular cone of density  $\rho$ , radius  $\alpha$  and height h is composed of elementary circular discs of small thickness each parallel to the base of the cone. Choose the z-axis as the axis of symmetry and consider a typical disc of radius r and width  $\delta z$  them mass of the disc is



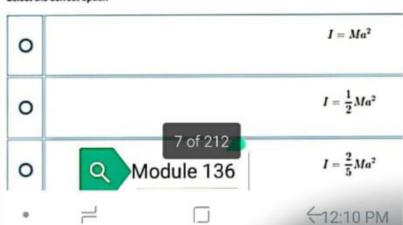
the or to be to be the control of the section.

# Usman Peer Zada 11 photos

Question # 5 of 10 (Start time: 03:02:20 PM, 23 February 2021 )

The Moment of inertia of a solid sphere having mass M and radius a is given by

#### Select the correct option









pg150

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Question # 1 of 10 ( Start time: 09:03:47 PM, 23 February 2021 )

The Moment of mertia of a hollow sphere having mass M and radius a is given by

#### Select the correct option

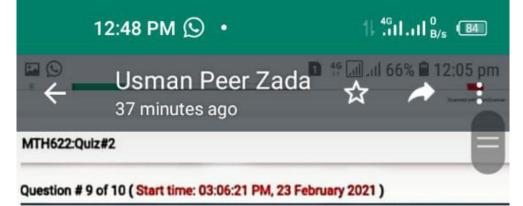
MTH622:Quiz#2

0		$I = Ma^2$
0		$I = \frac{1}{2}Ma^2$
0		$I = \frac{2}{5}Ma^2$
0	Module 155, pg106	$I=\frac{2}{3}Ma^2$

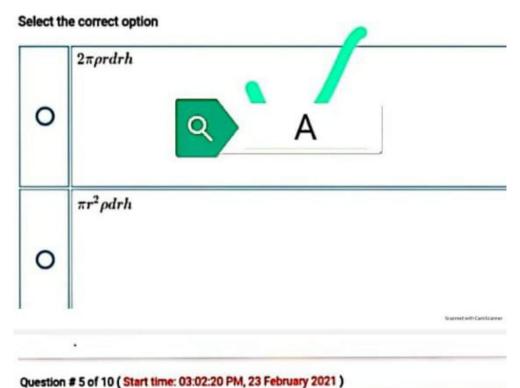
MTH622:Quiz#2

Question # 9 of 10 (Start time: 03:06:21 PM, 23 February 2021)

The mass of a cylindrical shell of density  $ho_r$ , height h thickness dr and radii

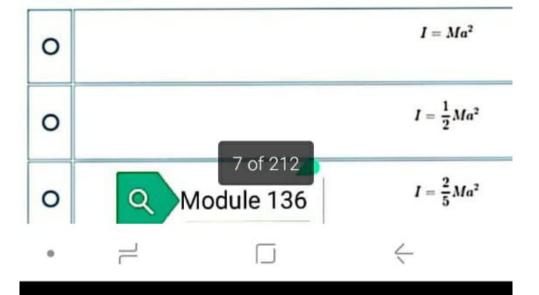


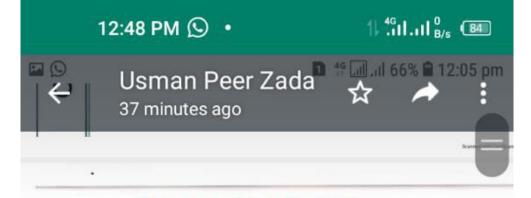
The mass of a cylindrical shell of density ho, height h thickness dr and radius r is



The Moment of inertia of a solid sphere having mass M and radius a is given by

#### Select the correct option





Question # 5 of 10 (Start time: 03:02:20 PM, 23 February 2021)

The Moment of inertia of a solid sphere having mass M and radius a is given by

#### Select the correct option

0		$I = Ma^2$
0		$I=\frac{1}{2}Ma^2$
0	Module 136	$I = \frac{2}{5}Ma^2$
0		$I = \frac{2}{3}Ma^2$

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# 2:Quiz#2

on # 7 of 10 (Start time: 02:53:13 PM, 23 February 2

niform solid sphere

### Question # 3 of 5 (Start time: 11:08:22 AM, 03 March 2022.)

Total Marks: 1

The Moment of inertia of a hollow sphere having mass M and radius a is given by

# Select the correct option

Reload Math Equations

0

$$I = \frac{1}{2}Ma^2$$

0

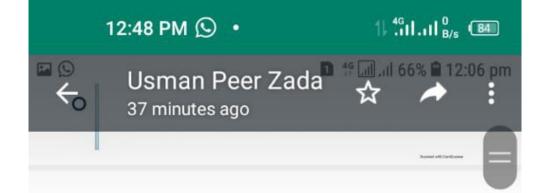
$$I = Ma^2$$

C

$$I = \frac{2}{5}Ma^2$$

O

$$I = \frac{2}{3}Ma^2$$



#### MTH622 Quiz#2

#### Question # 4 of 10 (Start time: 02:50:38 PM, 23 February 2021 )

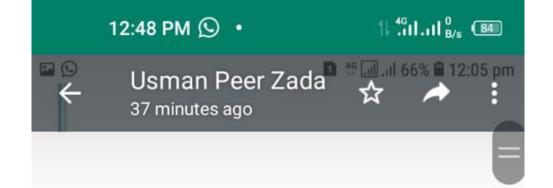
The Moment of inertia of a solid cylinder having mass M and radius a is given by

#### Select the correct option



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#### MTH622:Quiz#2

#### Question # 1 of 10 (Start time: 02:57:34 PM, 23 February 2021)

The Moment of inertia of a hollow cylindrical shell having mass M and radius a is given by

#### Select the correct option

0	Module 142, pg81	$I = Ma^2$
0		$I = \frac{1}{2}Ma^2$
0		$I = \frac{2}{5}Ma^2$
0		$I = \frac{2}{3}Ma^2$

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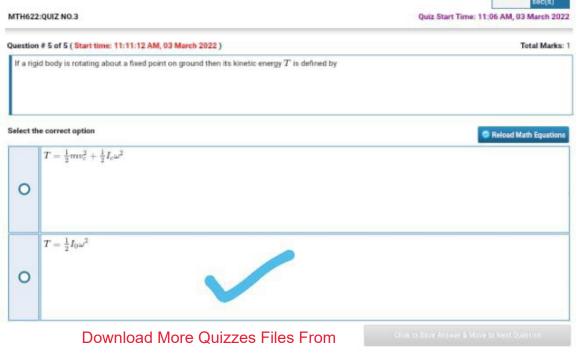
#### stz#2

#### 3 of 10 (Start time: 03:00:19 PM, 23 February 2021)

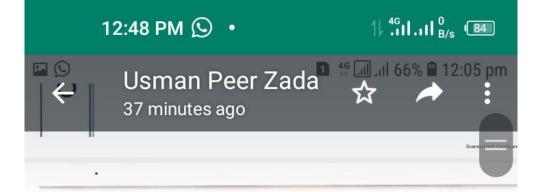
licles of masses m,2m and 3m are held in a rigid light framework at points (0,1,1),  $(1,\pm)$ . Find  $I_{yy}$ 

#### orrect option

m



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#### Question # 5 of 10 (Start time: 03:02:20 PM, 23 February 2021)

The Moment of inertia of a solid sphere having mass M and radius a is given by

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#### Select the correct option

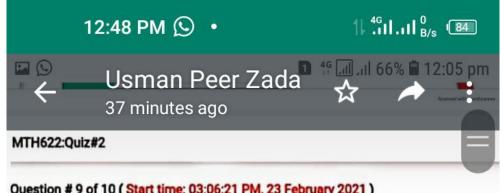
0		$I = Ma^2$
0		$I=\frac{1}{2}Ma^2$
0	Q Module 136	$I = \frac{2}{5}Ma^2$
0		$I=\frac{2}{3}Ma^2$

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# 2:Quiz#2

on # 7 of 10 (Start time: 02:53:13 PM, 23 February 2

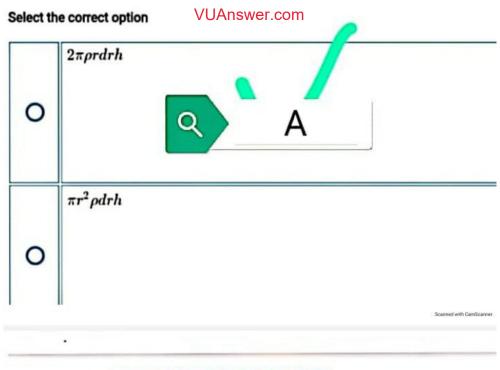
niform solid sphere



Question # 9 of 10 (Start time: 03:06:21 PM, 23 February 2021)

The mass of a cylindrical shell of density ho, height h thickness dr and radius r is

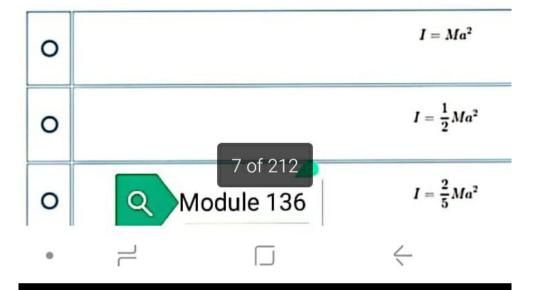
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#### Question # 5 of 10 (Start time: 03:02:20 PM, 23 February 2021)

The Moment of inertia of a solid sphere having mass M and radius a is given by

#### Select the correct option





# Usman Peer Zada 11 photos

Question # 5 of 10 ( Start time: 03:02:20 PM, 23 February 2021 )

The Moment of inertia of a solid sphere having mass M and radius a is given by

#### Select the correct option

0		$I = Ma^2$
0		$I = \frac{1}{2}Ma^2$
0	7 of 212 Module 136	$I = \frac{2}{5}Ma^2$
•	۲ ()	<12:10 PM



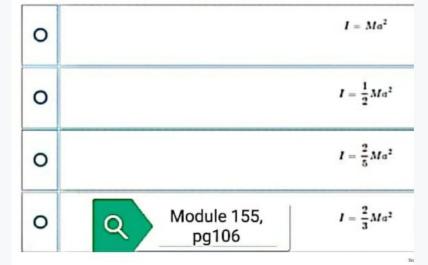


#### MTH622:Quiz#2

Question # 1 of 10 ( Start time: 09:03:47 PM, 23 February 2021 )

The Moment of mertia of a hollow sphere having mass M and radius a is given by

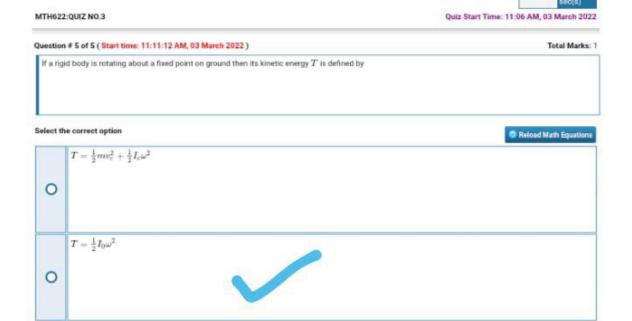
#### Select the correct option



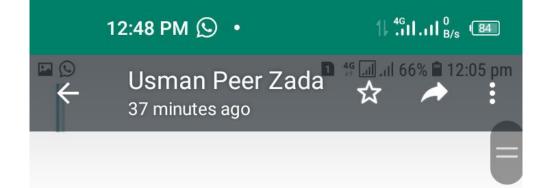
#### MTH622:Quiz#2

Question # 9 of 10 (Start time: 03:06:21 PM, 23 February 2021)

The mass of a cylindrical shell of density  $ho_r$ , height h thickness dr and radii



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#### MTH622:Quiz#2

Question # 1 of 10 (Start time: 02:57:34 PM, 23 February 2021)

The Moment of inertia of a hollow cylindrical shell having mass M and radius a is given by

#### Select the correct option

0	Module 142,	$I=Ma^2$
	pg81	1 _ 1 M-2
0		$I = \frac{1}{2}Ma^2$
0		$I = \frac{2}{5}Ma^2$
0		$I=\frac{2}{3}Ma^2$

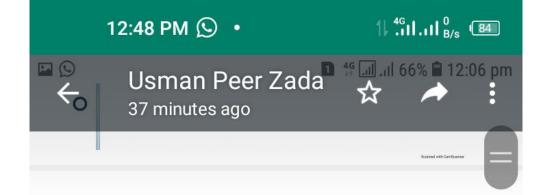
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#### stz#2

3 of 10 (Start time: 03:00:19 PM, 23 February 2021)

licles of masses m,2m and 3m are held in a rigid light framework at points (0,1,1), (1,1), fly. Find  $I_{yy}$ 

#### correct option



#### MTH622:Quiz#2

#### Question # 4 of 10 ( Start time: 02:50:38 PM, 23 February 2021 )

The Moment of inertia of a solid cylinder having mass M and radius a is given by

#### Select the correct option



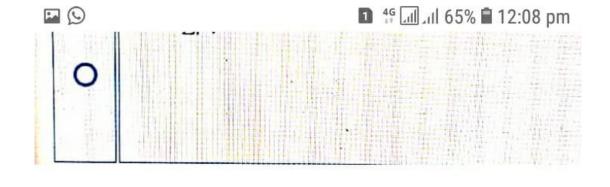
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uestion	n # 1 of 5 ( Start time: 11:06:36 AM, 03 March 2022 )	Total Marks:
Kinetic	c energy $T$ of a rigid body in a planar motion, is defined by	
Select th	he correct option	Reload Math Equations
0	$T=rac{1}{2}I_0\omega^2$	
0	$T=rac{1}{2}mv_{arkappa}^2+rac{1}{2}I_c\omega^2$	

n # 4 of 5 ( Start time: 11:09:44 AM, 03 March 2022 )	Total Marks:
der a right circular cone of density $ ho$ , radius $a$ and height $h$ is composed of elene. Choose the z-axis as the axis of symmetry and consider a typical disc of radius $a$ .	
ne correct option	Reload Math Equations
$\delta m = \rho 2\pi r \delta z$	
$\delta m = \rho \pi r^2 \delta z$	
	for a right circular cone of density $\rho$ , radius $a$ and height $b$ is composed of eleme. Choose the z-axis as the axis of symmetry and consider a typical disc of radius $a$ and $a$ are considered as $a$ and $a$ and height $b$ is composed of element $a$ and $a$ are considered as $a$ and $a$ and height $a$ is composed of element $a$ and $a$ and height $a$ is composed of element $a$ and $a$ a

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perpendicutar		0			
		perpendicular			
		0			
Cities to David Arts man & Mining to No et C	Chick to Band Arts and & Mings to Nort Quan			Charles No. of Asset	er & Moore to Newt 9

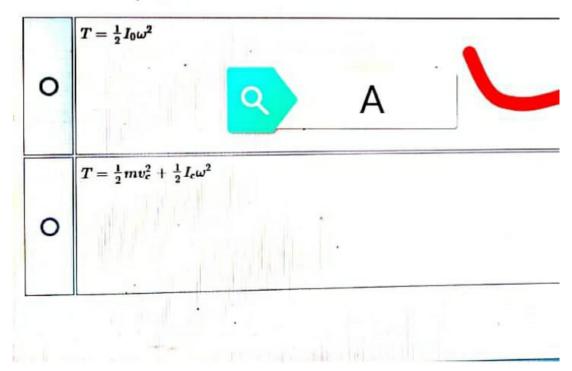


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# Question # 6 of 10 ( Start time: 09:54:50 AM, 05 August 2021 )

If a rigid body is rotating about a fixed point on ground then its kinetic energy  $m{T}$  is defined by

#### Select the correct option



77 of 212

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### Question # 3 of 5 (Start time: 11:08:22 AM, 03 March 2022.)

Total Marks: 1

The Moment of inertia of a hollow sphere having mass M and radius a is given by

# Select the correct option

Reload Math Equations

0

$$I = \frac{1}{2}Ma^2$$

0

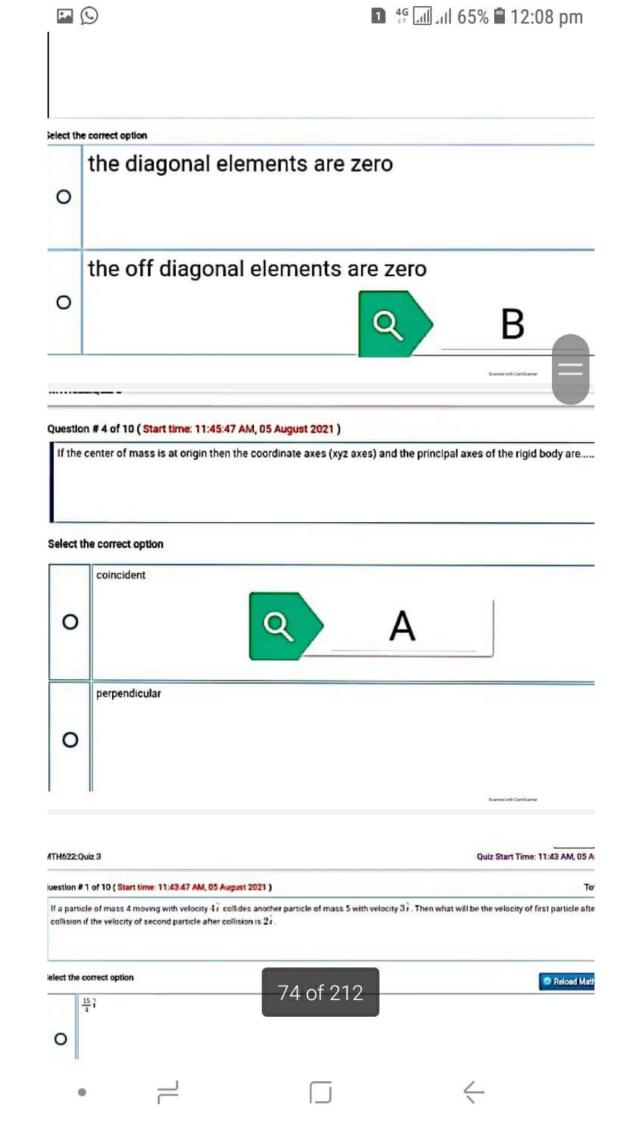
$$I = Ma^2$$

C

$$I = \frac{2}{5}Ma^2$$

O

$$I = \frac{2}{3}Ma^2$$



### MTH622:Quiz 3

# Question # 6 of 10 (Start time: 11:47:02 AM, 05 August 2021)

Kinetic energy T of a rigid body in a planar motion, is defined by



# Select the correct option

$$T = \frac{1}{2}I_0\omega^2$$



$$T = \frac{1}{2}mv_c^2 + \frac{1}{2}I_c\omega^2$$





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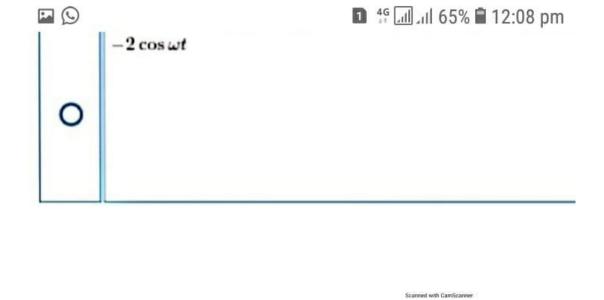
MTH622:Quiz 3

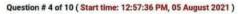
Quiz Start Time: 11:43 AM, 05 August 2021

Question # 10 of 10 ( Start time: 11:49:33 AM, 05 August 2021 )

Total Marks: 1

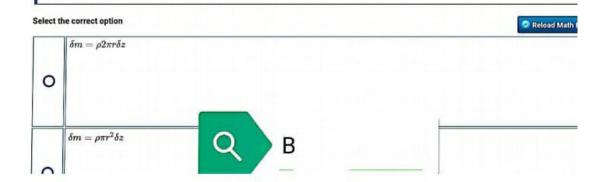
For an elastic body, the distance between two particles.....under the action of applied force





Tota

Consider a right circular cone of density ho, radius a and height h is composed of elementary circular discs of small thickness each parallel to the base the cone. Choose the z-axis as the axis of symmetry and consider a typical disc of radius r and width  $\delta z$  them mass of the disc is



MTH622:Quiz 3

Question # 3 of 10 (Start time: 12:56:21 PM, 05 August 2021)

If a body rotates about some external fixed point it is called revolution

Select the correct option

O Q71 of 212A