A _____ is 3-dimensional object shaped like a ball; with every point on its surface is the same distance from the center.

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Select th	he correct option	
0	sphere	
0	pyramid	
0	cube	
0	tetrahedron	

The curve $\left(x^2+y^2\right)x-2ay^2=0$ has tangents at origin as $y^2=0$, then the origin is a

Select the correct option

- Conjugate point

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 Node
 - Isolated point
 - Cusp

Question # 1 of 5 (Start time: 02:35:14 PM, 06 March 2022)

Total Marks: 1

If the elements of a cylinder are normal to a plane, then it is known as ____ with respect to that plane.

Select ti	he correct option	
0	right cylinder	
0	sphere	
0	cone	
0	paraboloid	Download More Quizzes Files From VUAnswer.com



Total Marks: 1

Trace of a cone
$$x^2 + \frac{y^2}{9} = z^2$$
, in xz - plane is _____.

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Select the correct option

no trace

1	-
1	- 1
1	1







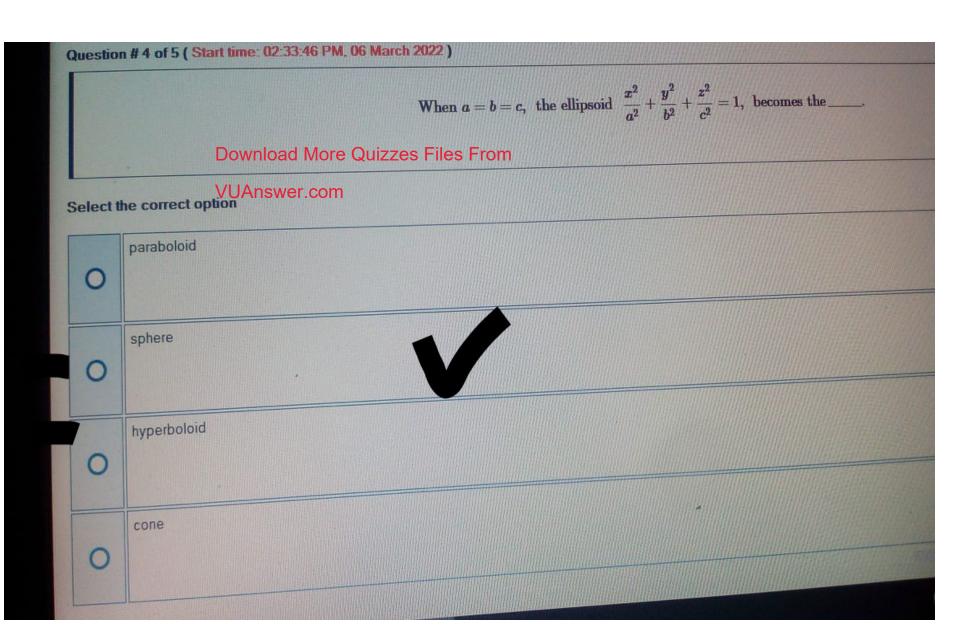
$$x = \pm x$$

$$x = \pm \frac{y}{3}$$

$$y = \pm 3z$$

Question # 3 of 5 (Start time: 02:36:50 PM, 06 March 2022) Total Marks: 1 $\frac{x^2}{3^2} + \frac{y^2}{4^2} = 1, \ \ \text{is the equation of} \ \underline{\hspace{1cm}} \ \ \text{cylinder}.$ Download More Quizzes Files From VUAnswer.com Select the correct option Reload Math Equations parabolic 0 elliptic 0 hyperbolic circular

Question # 5 of 5 (Start time: 02:34:26 PM, 06 March 2022) If two real branches of a curve passing through the double point are real and tangents to them are coincident then the double point is a Select the correct option Conjugate point Download More Quizzes Files From Cusp VUAnswer.com Node All of them



Question # 3 of 5 (Start time: 02:32:44 PM, 06 March 2022)

In curve
$$y^2 = x(x-a)^2$$
, the singular point $(a,0)$ is a when $f_{xx}(a,0) = -2a$, $f_{yy}(a,0) = 2$ and $f_{xy}(a,0)$

Select the correct option

0	Cusp	
0	Conjugate point	
0	Node	Download More Quizzes Files From VUAnswer.com
0	Isolated point	

Question # 4 of 5 (Start time: 01:01:14 PM, 06 March 2022)

Total Marks: 1

$$rac{x^2}{4}+rac{y^2}{9}+1=rac{z^2}{16},$$
 is an equation of ______.

Select the correct option

Reload Math Equations

0	Hyperboloid of one sheet



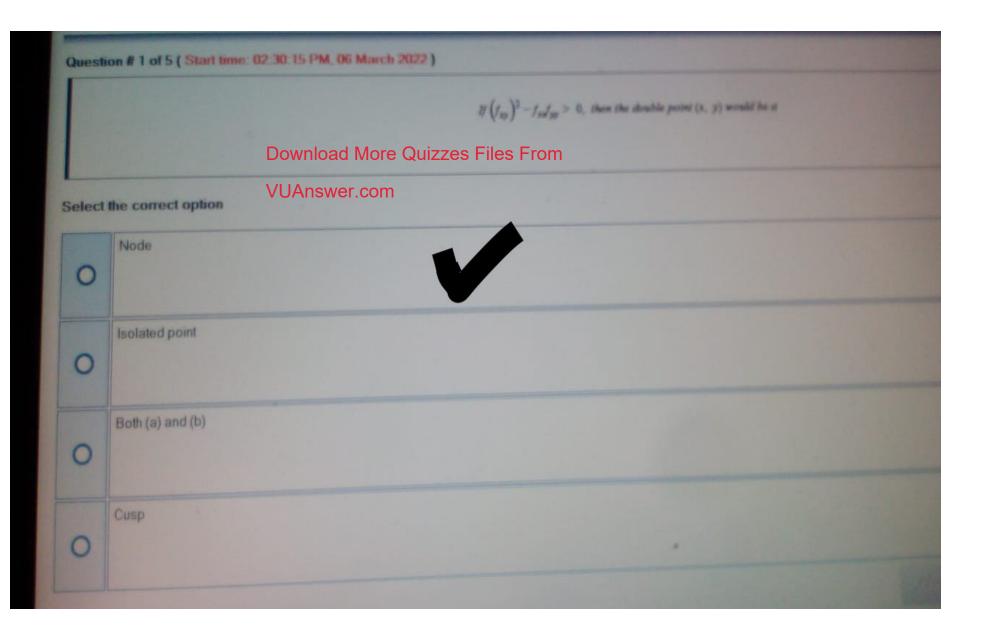
0

Hyperboloid of two sheets



Î	Paraboloid
0	

Ellipsoid



Questio	Question # 2 of 5 (Start time: 02:31:49 PM, 06 March 2022)				
In cyli	nder each line through the curve and to the line is called an element (or ruling) of the cylinder.				
Select	the correct option				
0	(b) parallel Download More Quizzes Files From VUAnswer.com				
0	(d) both (a) and (b)				
0	(c) center				
0	(a) perpendicular				

BC190407302: MUHAMMAD SADDAM LIAQAT

MTH403:Quiz No. 3

Quiz Start Time: 12:57 PM, 06 March 2022

Question	uestion # 5 of 5 (Start time: 01:02:05 PM, 06 March 2022) Total Marks:			
		$If\left(f_{xy} ight)^{2}-f_{xx}f_{yy}>\ 0,\ then\ the\ double\ point\ (x,\ y)\ \ would\ be\ a$		
		Download More Quizzes Files From		
Select th	e correct option	VUAnswer.com	Reload Math Equations	
0	Both (a) and (b)			
0	Isolated point			
0	Node			
0	Cusp			

Quiz Start Time: 01:52 PM, 06 March 2022

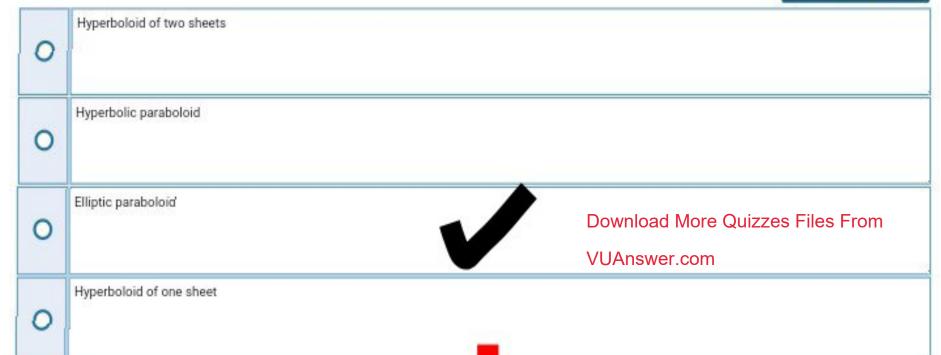
Question # 5 of 5 (Start time: 01:56:52 PM, 06 March 2022)

Total Marks: 1

$$\frac{x^2}{16} + \frac{y^2}{25} = z$$
, is an equation of _____.

Select the correct option





Points of inflection and multiple points are the types of

Select the correct option None of these 0 End points 0 Double point 0 Singular point 0

$\frac{x^2}{3^2} + \frac{y^2}{4^2} = 1$, is the equation of _____ cylinder. Download More Quizzes Files From VUAnswer.com Select the correct option Reload Math Equations circular 0 parabolic 0 elliptic 0 hyperbolic

Question # 4 of 5 (Start time: 01:55:29 PM, 06 March 2022)

Total Marks: 1

In cylinder each line through the curve and ____ to the line is called an element (or ruling) of the cylinder.

Download More Quizzes Files From

Select the correct option			VUAnswer.com
0	(d)	both (a) and (b)	
0	(a)	perpendicular	
0	(c)	center	
0	(b)	parallel	

$\frac{x^2}{4} + \cdot$	$\frac{y^2}{9} + 1$	$1 = \frac{z^2}{16}$	is an	equation	of	
-------------------------	---------------------	----------------------	-------	----------	----	--

Select the correct option

0	Hyperboloid of two sheets
0	Hyperboloid of one sheet
0	Paraboloid
0	Ellipsoid

If $(f_{xy})^2 - f_{xx} f_{yy} = 0$, then the double point (x, y) would be a

Select the correct option

0	Node	
0	Isolated point	
0	None of above	
0	Cusp	

Questio	n # 5 of 5 (Start time: 01:09:30 PM, 06 March 2022)	Total Marks:
A dou	the point Q on a curve is a if there exist no real points of the curve in the neighborhood st R.	
Select ti	he correct option	Reload Math Equations
0	Both (b) and (c)	
0	Complex point	
0	Conjugate point	
0	Isolated point	

Question # 3 of 5 (Start time: 12:59:50 PM, 06 March 2022)

Total Marks: 1

The graph of f(x) = |x| at x = 0 has a

Select the correct option

Cusp

0	
0	Both (a) and (b)
0	Derivative
0	Node

 $rac{x^2}{64} + rac{y^2}{81} + 1 = rac{z^2}{100}$, is an equation of ______

Select the correct option

Reload Math Equations

Hyperboloid of one sheet

Paraboloid

0

0

0

Ellipsoid

Hyperboloid of two sheets

Download More Quizzes Files From VUAnswer.com

 $rac{x^2}{16}+rac{y^2}{25}=z$, is an equation of _____.

Select the correct option

0

0

0

0

Reload Math Equations

Hyperboloid of two sheets

Elliptic paraboloid



Hyperbolic paraboloid

Hyperboloid of one sheet

To discuss the nature of a double point, we have to calculate the

Select the correct option

0	Both (a) and (b)	
0	Tangents	
0	Binormal	
0	Normal	

In curve $y^2 = x(x-a)^2$, the singular point (s,0) is a when $f_{xx}(a,0) = -2a$, $f_{yy}(a,0) = 2$ and $f_{xy}(a,0) = 0$.

Select th	ne correct option	Reload Math Equations
0	Сияр	
0	Inclated point	
0	Node	
0	Conjugate point	

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VUAnswer.com

Question # 3 of 5 (Start time: 12:54:35 PM, 06 March 2022.) Total Marks: 1 $If(f_{xy})^2 - f_{xx}f_{yy} < 0$, then the double point (x, y) would be a Select the correct option Reload Math Equations All of them 0 Cusp 0 Node 0 Isolated point

Question # 2 of 5 (Start time: 12:54:00 PM, 05 March 2022)

Total Marks: 1

The flat shapes are studied in _____ geometry.

Select the correct aption solid 0 differential 0 plane 0 spherical 0

Question # 1 of 5 (Start time: 12:52:24 PM, 06 March 2022)

Total Marks: 1

$$\frac{x^2}{9} + \frac{y^2}{16} + \frac{x^2}{16} = 1$$
, is the equation of _____.

Select the correct option

0	ellipsoid	
0	hyperboloid	
0	paraboloid	
0	cone	

If two real branches of a curve passing through the double point are real and tangents to them are distinct then the double point is a

Select th	e correct option
0	Cusp
0	Isolated point
0	None of these
•	Node

Question # 5 of 5	(Start time:	01:43:41 PM	, 06 March 2022)
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Total Marks: 1

 $If(f_{xy})^2 - f_{xx}f_{yy} = 0$, then the double point (x, y) would be a

Select the correct option



O

Isolated point

0

None of above



Cusp

$$If \ f\left(x\right)=\left(x-1\right)^{2/3}-3\left(x-1\right) \ and \ f'\left(x\right)=\frac{2}{3{\left(x-1\right)^{1/3}}}-3 \ then \ the \ singular \ point \ of \ f\left(x\right) \ is$$

Select the correct option	Download More Quizzes Files From	Reload Math Equations
O -1	VUAnswer.com	
0 2		
0		
• 1		

Ellipsoid is symmetrical about ____.

Select the correct option

0	(a)	xy-plane
0	(c)	xz-plane
0	(b)	yz-plane
0	(d)	All (a),(b) and (c)

Juestion # 2 of 5 (Start time: 12:49:13 PM, 06 March 2022)

Total Marks: 1

$$\frac{x^2}{16} + \frac{y^2}{25} = \frac{z^2}{36}$$
, is the equation of _____.

Select	the	correct	OI	otion
			_	

0	sphere		
0	paraboloid		
0	cone		
0	cylinder		

$$If \ f(x) = (x-1)^{2/3} - 3(x-1) \ and \ f'(x) = \frac{2}{3(x-1)^{1/3}} - 3 \ then \ the \ singular \ point \ of \ f(x) \ is$$

Select the correct option



0	-1	
0	2	
0	1	
0	0	

Question # 5 of 5 (Start time: 12:47:41 PM, 06 March 2022)

Total Marks: 1

 $x^2 + rac{y^2}{16} - rac{z^2}{25} = 1$, is an equation of _____.

Select the correct option

Reload Math Equations

Hyperboloid of two sheets

Ellipsoid

0

0

0

Paraboloid

Hyperboloid of one sheet

A _____ is 3-dimensional object shaped like a ball; with every point on its surface is the same distance from the center.

Select the correct option	
0	cube
0	pyramid
0	Sphere Download More Quizzes Files From VUAnswer.com
0	tetrahedron

Points of inflection and multiple points are the types of

Select the correct option Singular point 0 None of these 0 End points 0 Double point 0

Click to Save Answer & Move to Next Question

A double point Q on a curve is a if there exist no real points of the curve in the neighborhood of R. Select the correct option Reload Math Equations Isolated point 0 Conjugate point 0 Both (b) and (c) 0 Complex point 0

To discuss the nature of a double point, we have to calculate the

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Select the correct option Both (a) and (b) 0 Binormal 0 **Tangents** 0 Normal 0

$If\left(f_{xy}\right)^{2}-f_{xx}f_{yy}<0,\ then\ the\ double\ point\ (x,\ y)\ \ would\ be\ a$

Select th	he correct option	Reload Math Equations
0	All of them	
0	Cusp	
0	Isolated point	
0	Node	

If the elements of a cylinder are normal to a plane, then it is known as ____ with respect to that plane.

0	sphere
0	paraboloid
0	cone
0	right cylinder

The flat shapes are studied in _____ geometry.

0	differential
0	plane
0	solid
0	spherical

When
$$a=b=c, \,$$
 the ellipsoid $\frac{x^2}{a^2}+\frac{y^2}{b^2}+\frac{z^2}{c^2}=1, \,$ becomes the _____.

Select the correct option

Reload Math Equations

- Download More Quizzes Files From VUAnswer.com
- paraboloid

0

0

0

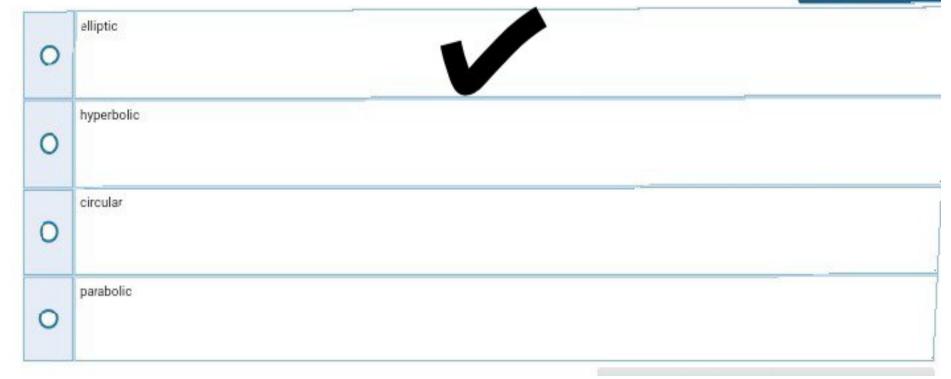
- hyperboloid
 - cone

Question # 1 of 5 (Start time: 12:36:17 PM, 06 March 2022)

Total Mark

$$\frac{x^2}{3^2} + \frac{y^2}{4^2} = 1$$
, is the equation of _____ cylinder.





Question # 5 of 5 (Start time: 12:33:31 PM, 06 March 2022)

Total Marks: 1

If two real branches of a curve passing through the double point are real and tangents to them are coincident then the double point is a

0	Cusp
0	Conjugate point
0	Node
0	All of them Download More Quizzes Files From

VUAnswer.com

For the curve $x^3 + y^3 - 3axy = 0$, the tangents at the origin are x = 0 and y = 0, then the origin is a

Select t	he correct option	Reload Math Equations
0	Isolated point	
0	Node	
0	None of these	
0	Cusp	

 $A\ point\ on\ the\ curve\ through\ which\ r\ branches\ of\ the\ curve\ pass\ is\ called\ Multiple\ point\ of$

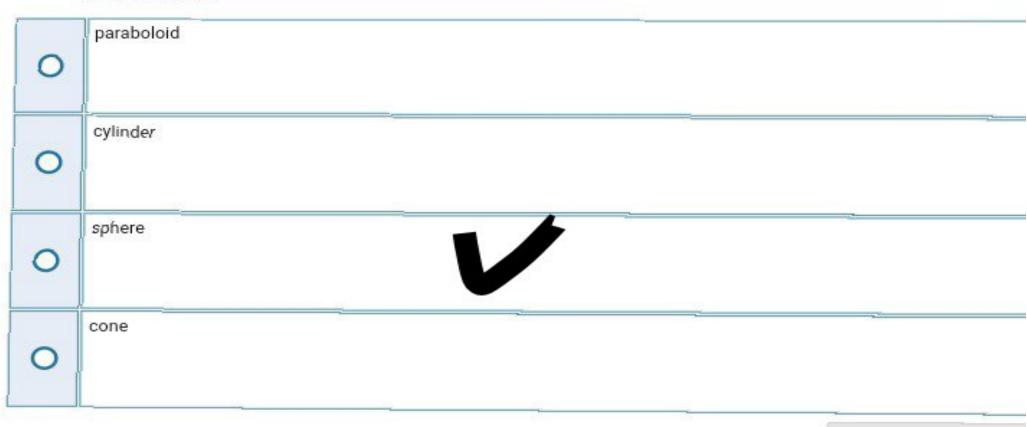
Select the correct option pth order 0 rth order 0 sth order 0 Multiple order

In cylinder each line through the curve and ____ to the line is called an element (or ruling) of the cylinder.

Select the correct option (c) center 0 (d) both (a) and (b) 0 (b) parallel 0 perpendicular (a)

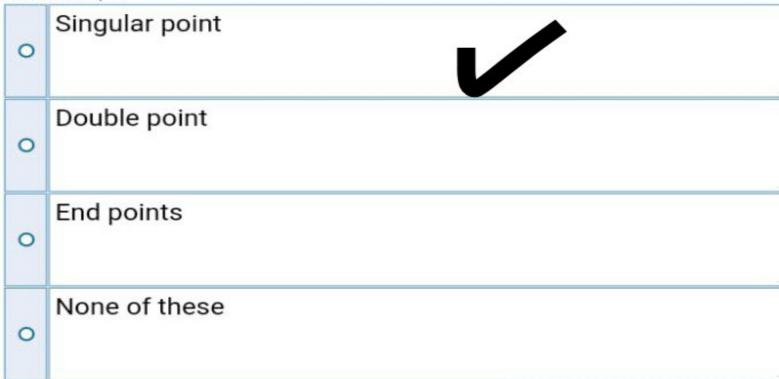
Question : - or o (viais times 12.0 1.04 1 m) or march 2022)

$$\frac{x^2}{16} + \frac{y^2}{25} = \frac{z^2}{36}$$
, is the equation of _____.



Points of inflection and multiple points are the types of

Select the correct option



Carlo to San America & Mountain Land Charles

To discuss the nature of a double point, we have to calculate the

Select the correct option Normal 0 **Tangents** 0 Both (a) and (b) 0 Binormal 0 **Download More Quizzes Files From** VUAnswer.com

$$x^2+rac{y^2}{16}-rac{z^2}{25}=1,$$
 is an equation of _____.

0	Ellipsoid
0	Hyperboloid of one sheet
0	Hyperboloid of two sheets
0	Paraboloid

The functions $y=4\sqrt{x}$ and $y=-4\sqrt{x}$ are two branches of parabola

0	$y^2=4x$
0	$y \approx 16x$
0	$y^2=-4x$
	$y^2=16x$

Question # 1 of 5 (Start time: 12:28:47 PM, 06 March 2022)

 $x^2+rac{y^2}{16}-rac{z^2}{25}=1,$ is an equation of _____.

0	Ellipsoid	
0	Hyperboloid of two sheets	
0	Paraboloid	
0	Downibad More Quizzes Files From VUAnswer.com	Download More Quizzes Files From VUAnswer.com

A branch of geometry that studies relations concerning lengths and angles of triangles is known as _____.

0	solid geometry
0	trigonometry
0	plane geometry
0	spherical/geometry

Ellipsoid is symmetrical about _____.

	()	VIV. STATE AND SHOOL SAID. 40. 40. 40. 40. 40.	
0	(d)	All (a),(b) and (c)	
0	(c)	xz-plane	
0	(a)	xy-plane	
0	(b)	yz-plane	

Question # 3 of 5 (Start time: 12:22:15 PM, 06 March 2022)

Total Marks: 1

 $rac{x^2}{4} + rac{y^2}{9} + 1 = rac{x^2}{16}$, is an equation of _____.

Select the correct option Reload Math Equations Hyperboloid of two sheets 0 Paraboloid 0 Hyperboloid of one sheet 0 Ellipsoid 0

Hestion # 4 of 5 (Start films: 14:41.43 Film, as manual 445-7

$$\frac{x^2}{16} + \frac{y^2}{25} = \frac{z^2}{36}$$
, is the equation of _____

Selecti	he	corr	ect	opt	ion
---------	----	------	-----	-----	-----

Reload Math Equations

0	cylinder				
0	cone				
0	parabeloid	<u>Viet</u>			
0	sphere				

Plane geometry

Select the correct option

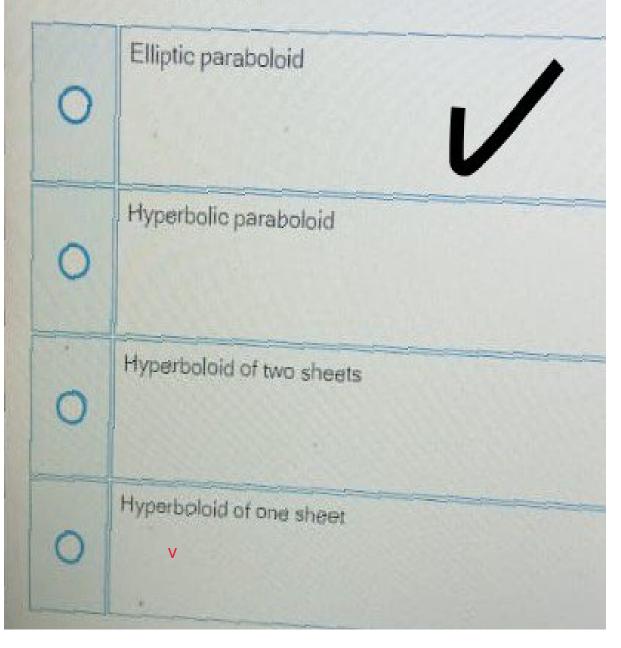
0

Which of the following is (are) related to the surface of sphere?

Spherical geometry Spherical trigonometry Solid geometry

If two tangents at the origin are imaginary then the origin is a Download More Quizzes Files From VUAnswer.com Select the correct option None of these Node Cusp Conjugate point

$$\frac{x^2}{36} + \frac{y^2}{49} = z$$
, is an equation of _____.



Question	n # 3 of 5 (Start time: 12:17:04 PM	8, 06 March 2022 v				***		
A bran	nch of geometry that studies relation	S Comprison to set						
		- remounting telegris	and angles o	f triangles is kni	own as			
1								
1								
-					1411			
Select th	ne correct option						1111	
	trigonometry							
					1 1			
	solid geometry						****	
0	hg*				CWW.			
	spherical geometry							
0								
	plane geometry							
0								
					1111		S.	

sestion # 2 of 5 (Start time: 12:16:16 PM, 06 March 2022) If $(f_{xy})^2 - f_{xx}f_{yy} > 0$, then the double point (x, y) would be a **Download More Quizzes Files From** VUAnswer.com Select the correct option Isolated point Both (a) and (b) Cusa Node

	The graph of $f(x) = x $ at $x = 0$ has a		
the correct option			
Derivative		20	
Node			
Cusp			