


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

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Select the correct option

 Reload Math Equations

<input type="radio"/>	$x = \pm z$ 
<input type="radio"/>	$x = \pm \frac{y}{3}$
<input type="radio"/>	no trace
<input type="radio"/>	$y = \pm 3z$

[Click to Save Answer & Move to Next Question](#)

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

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Reload Math Equations

Select the correct option

<input type="radio"/>	Elliptic paraboloid
<input type="radio"/>	Hyperboloid of one sheet
<input type="radio"/>	Hyperboloid of two sheets
<input type="radio"/>	Hyperbolic paraboloid

Click to Save Answer & Move to Next Question

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

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[Reload Math Equations](#)

Select the correct option

- | | |
|-----------------------|------------------|
| <input type="radio"/> | Both (a) and (b) |
| <input type="radio"/> | Cusp |
| <input type="radio"/> | Derivative |
| <input type="radio"/> | Node |



[Click to Save Answer & Move to Next Question](#)

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

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|------------|
| <input type="radio"/> | cylinder |
| <input type="radio"/> | cone |
| <input checked="" type="radio"/> | sphere |
| <input type="radio"/> | paraboloid |

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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

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<input type="radio"/>	1
<input type="radio"/>	-1
<input type="radio"/>	0
<input type="radio"/>	2

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BC200404409: FIZZA NASEER

Time Left 86 sec(s)

MTH403:Quiz No. 3

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

Question # 1 of 5 (Start time: 01:52:48 PM, 06 March 2022)

Total Marks:

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

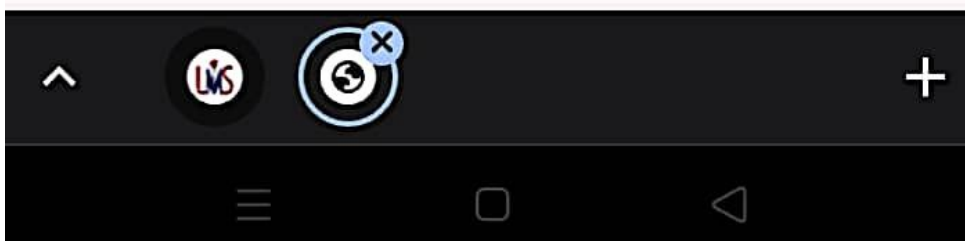
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Reload Math Equations

Select the correct option

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

Click to Save Answer & Move to Next Question



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 Reload Math Equations

- Cusp
- Both (a) and (b)
- Derivative
- Node



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Click to Save Answer / Move to Next Question



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

Select the correct option

<input type="radio"/>	Normal
<input checked="" type="radio"/>	Tangents
<input type="radio"/>	Both (a) and (b)
<input type="radio"/>	Binormal

Click to Save Answer & Move to Next Question

Question # 2 of 5 (Start time: 02:48:44 PM, 06 March 2022)

Total Marks

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 $f_{xy}(a, 0) = 0$.

Select the correct option

Revised Math 1 question

- | | |
|----------------------------------|-----------------|
| <input type="radio"/> | Cusp |
| <input type="radio"/> | Conjugate point |
| <input checked="" type="radio"/> | Node |
| <input type="radio"/> | Isolated point |

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

<input type="radio"/>	sphere
<input type="radio"/>	pyramid
<input type="radio"/>	cube
<input type="radio"/>	tetrahedron

Click on the correct answer to see the correct answer

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

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Conjugate point
<input checked="" type="radio"/>	Node
<input type="radio"/>	Isolated point
<input type="radio"/>	Cusp

[Click on Correct Answer if you do not Know it](#)

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

Select the correct option

Reload Math Equations

<input type="radio"/>	parabolic
<input checked="" type="radio"/>	elliptic
<input type="radio"/>	hyperbolic
<input type="radio"/>	circular

[Go back to previous question](#) / [Go to next question](#)


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

Select the correct option

[Reveal Math Equations](#)

<input type="radio"/>	no trace
<input type="radio"/>	$x = \pm z$ 
<input type="radio"/>	$x = \pm \frac{y}{3}$
<input type="radio"/>	$y = \pm 3z$

[Click to Edit / Answer / Question / Test / Question](#)

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

Select the correct option

- right cylinder
- sphere
- cone
- paraboloid

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Click to See Answer & Move to Next Question

Question # 5 of 5 (Start time: 02:31:26 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

- | | |
|----------------------------------|-----------------|
| <input type="radio"/> | Conjugate point |
| <input checked="" type="radio"/> | Cusp |
| <input type="radio"/> | Node |
| <input type="radio"/> | All of them |

Question # 4 of 5 (Start time: 02:33:46 PM, 06 March 2022)

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

- paraboloid
- sphere
- hyperboloid
- cone

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 $f_{xy}(a, 0) = 0$

Select the correct option

- Cusp
- Conjugate point
- Node
- Isolated point

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

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Select the correct option

- (b) parallel
- (d) both (a) and (b)
- (c) center
- (a) perpendicular



Question # 1 of 5 (Start time: 02:30:15 PM, 06 March 2022)

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

Select the correct option

- | | |
|----------------------------------|------------------|
| <input checked="" type="radio"/> | Node |
| <input type="radio"/> | Isolated point |
| <input type="radio"/> | Both (a) and (b) |
| <input type="radio"/> | Cusp |



Question # 3 of 5 (Start time: 01:54:30 PM, 06 March 2022)

Total Marks:

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

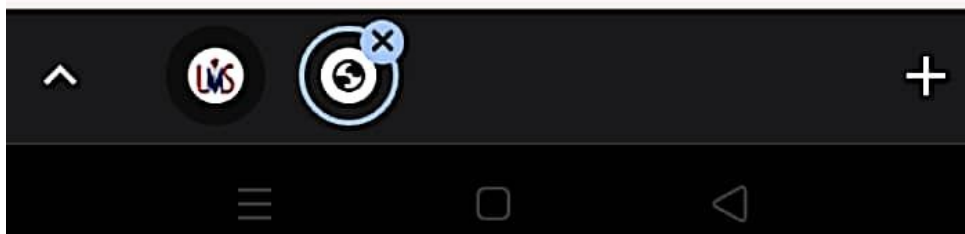
Select the correct option

Reload Math Equations

- circular
- parabolic
- elliptic
- hyperbolic

Click to Save Answer & Move to Next Question


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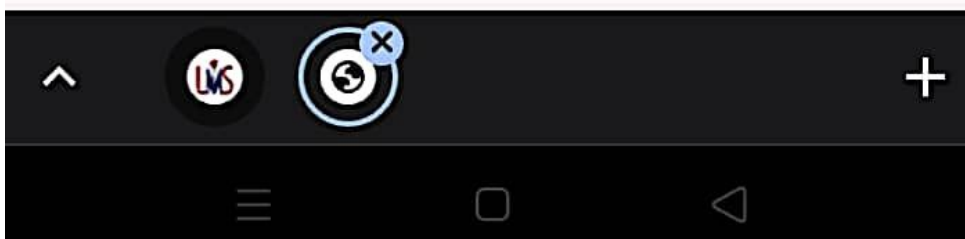


In cylinder each line through the curve and _____ to the line is called an element (or ruling) of the cylinder.

Select the correct option

- (d) both (a) and (b)
- (a) perpendicular 
- (c) center
- (b) parallel

Click to Save Answer / Move to Next Question





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

Total Marks:

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

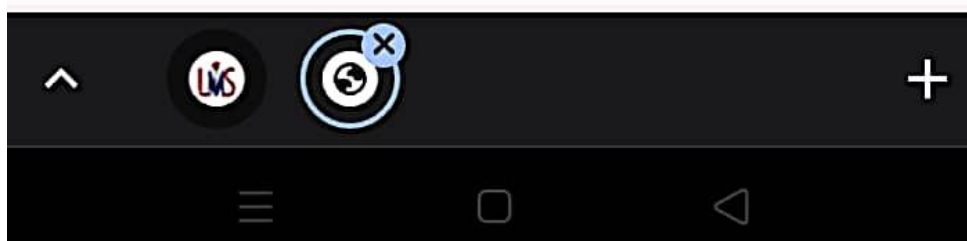
Select the correct option

Reload Math Equations

- Hyperboloid of two sheets
- Hyperbolic paraboloid
- Elliptic paraboloid
- Hyperboloid of one sheet

Click to Save Answer & Move to Next Question

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Points of inflection and multiple points are the types of

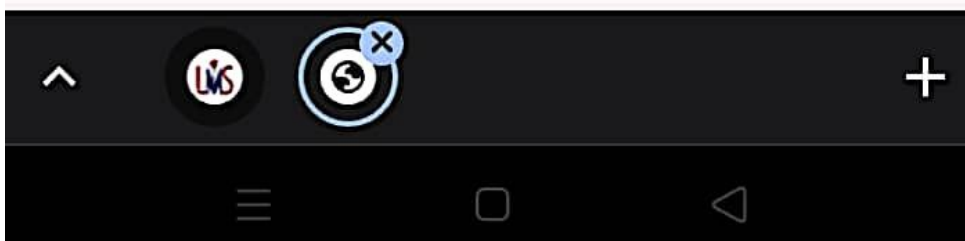
Select the correct option

- None of these
- End points
- Double point
- Singular point



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Click to Save Answer / Move to Next Question



Question # 4 of 5 { Start time: 01:07:47 PM, 06 March 2022 }

Total Marks

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

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Node
<input type="radio"/>	Isolated point
<input type="radio"/>	None of above
<input checked="" type="radio"/>	Cusp

[Click to see Answer](#) [Move to Next Question](#)

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Question # 3 of 5 (Start time: 01:06:15 PM, 06 March 2022)

Total Marks:

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 $f_{xy}(a, 0) = 0$.

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Node
<input type="radio"/>	Isolated point
<input type="radio"/>	Conjugate point
<input type="radio"/>	Cusp



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[View of Give Answer & Move to Next Question](#)

Question # 2 of 3 (Start time: 01:05:09 PM, 06 March 2022)

Total Marks:

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

Select the correct option

Revised Math Equations

<input type="radio"/>	cone
<input checked="" type="radio"/>	sphere
<input type="radio"/>	cylinder
<input type="radio"/>	paraboloid

[Click to View Answer & Move to Next Question](#)

The flat shapes are studied in _____ geometry.

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Select the correct option

<input type="radio"/>	solid
<input checked="" type="radio"/>	plane
<input type="radio"/>	spherical
<input type="radio"/>	differential

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Quiz

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BC190407302: MUHAMMAD SADDAM LIAQAT

Time Left 87 sec(s)

MTH403:Quiz No. 3

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

Question # 5 of 5 (Start time: 01:02:05 PM, 06 March 2022)

Total Marks:

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](#)

- | | |
|----------------------------------|------------------|
| <input type="radio"/> | Both (a) and (b) |
| <input type="radio"/> | Isolated point |
| <input checked="" type="radio"/> | Node |
| <input type="radio"/> | Cusp |

[Click to Save Answer & Move to Next Question](#)

BC190407302: MUHAMMAD SADDAM LIAQAT

Time Left 87 sec(s)

MTH403:Quiz No. 3

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

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

Total Marks:

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

Select the correct option

Reload Math Equations

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

Click to Save / Answer & Move to Next Question

BC190407302: MUHAMMAD SADDAM LIAQAT

Time Left 85 sec(s)

MTH403:Quiz No. 3

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

Question # 2 of 5 (Start time: 12:58:59 PM, 06 March 2022)

Total Marks: .

$\frac{x^2}{64} + \frac{y^2}{81} + 1 = \frac{z^2}{100}$, is an equation of _____.

Select the correct option

Reload Math Equations

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

Click to Save Answer / Move to Next Question

BC190407302: MUHAMMAD SADDAM LIAQAT

Time Left 87 sec(s)

MTH403:Quiz No. 3

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

Question # 1 of 5 (Start time: 12:57:23 PM, 06 March 2022)

Total Marks: 1

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

Select the correct option


Reload Math Equations

- Hyperboloid of two sheets
- Elliptic paraboloid
- Hyperbolic paraboloid
- Hyperboloid of one sheet

Click to Save Answer & Move to Next Question

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

Select the correct option

<input type="radio"/>	Both (a) and (b)
<input checked="" type="radio"/>	Tangents 
<input type="radio"/>	Binormal
<input type="radio"/>	Normal

Submit Answer / Submit All Questions

Question # 4 of 5 (Start time: 12:55:13 PM, 06 March 2022)

Total Marks:

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 $f_{xy}(a, 0) = 0$.

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Cusp
<input type="radio"/>	Isolated point
<input checked="" type="radio"/>	Node
<input type="radio"/>	Conjugate point

[Click to Save Answer & Move to Next Question](#)

Question # 3 of 5 (Start time: 12:54:35 PM, 06 March 2022)

Total Marks: 1

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

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	All of them
<input type="radio"/>	Cusp
<input type="radio"/>	Node
<input checked="" type="radio"/>	Isolated point

[Click to View Answer & Move to Next Question](#)

The flat shapes are studied in _____ geometry.

Select the correct option

<input type="radio"/>	solid
<input type="radio"/>	differential
<input checked="" type="radio"/>	plane
<input type="radio"/>	spherical

Q11112011 - Answer (3 Marks) Next Question

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BC200408247: AYESHA ARSHAD

Time Left 83
sec(s)

MTH403: Quiz No. 3


Quiz Start Time: 12:48 PM, 06 March 2022

Question # 5 of 5 (Start time: 12:51:06 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 distinct then the double point is a

Select the correct option

<input type="radio"/>	Cusp
<input type="radio"/>	Isolated point
<input type="radio"/>	None of these
<input checked="" type="radio"/>	Node 

[Click to Save Answer & Move to Next Question](#)



BC200408247: AYESHA ARSHAD

Time Left 89
sec(s)

MTH403: Quiz No. 3

Quiz Start Time: 12:48 PM, 06 March 2022

Question # 3 of 5 (Start time: 12:50:22 PM, 06 March 2022)

Total Marks: 1

Ellipsoid is symmetrical about _____.

Select the correct option

- | | |
|-----------------------|-------------------------|
| <input type="radio"/> | (a) xy-plane |
| <input type="radio"/> | (c) xz-plane |
| <input type="radio"/> | (b) yz-plane |
| <input type="radio"/> | (d) All (a),(b) and (c) |



Click to Save Answer & Move to Next Question



BC200408247: AYESHA ARSHAD

Time Left 81 sec(s)

MTH403 Quiz No. 3

Quiz Start Time: 12:48 PM, 06 March 2022

Question # 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 option

Reload Math Equations

- | | |
|-----------------------|------------|
| <input type="radio"/> | sphere |
| <input type="radio"/> | paraboloid |
| <input type="radio"/> | cone |
| <input type="radio"/> | cylinder |

Click to See Answer of Question



BC200408247: AYESHA ARSHAD

Time Left 88 sec(s)

MTH403: Quiz No. 3

Quiz Start Time: 12:48 PM, 06 March 2022

Question # 1 of 5 (Start time: 12:48:39 PM, 06 March 2022)

Total Marks: 1

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

Reload Math Equations

- 1
- 2
- 1
- 0

Click to See Answer / Move to Next Question

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

Select the correct option

Advanced Math Equations


<input type="radio"/>	Hyperboloid of two sheets
<input type="radio"/>	Ellipsoid
<input type="radio"/>	Paraboloid
<input type="radio"/>	Hyperboloid of one sheet

Not correct

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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

<input type="radio"/>	cube
<input type="radio"/>	pyramid
<input type="radio"/>	sphere 
<input type="radio"/>	tetrahedron

Click to Save Answer or Move to Next Question

Points of inflection and multiple points are the types of

Select the correct option

- | | |
|----------------------------------|----------------|
| <input checked="" type="radio"/> | Singular point |
| <input type="radio"/> | None of these |
| <input type="radio"/> | End points |
| <input type="radio"/> | Double point |

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](#)

<input type="radio"/>	Isolated point
<input checked="" type="radio"/>	Conjugate point
<input type="radio"/>	Both (b) and (c)
<input type="radio"/>	Complex point

You can use the [AI Model](#) to solve this question

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

Select the correct option

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

[Click to Show Answer & View 15 Test Questions](#)



BC200417878: MUBASHAR IQBAL

Time Left 87 sec(s)

MTH403 Quiz No. 3

Quiz Start Time: 12:36 PM, 06 March 2022

Question # 5 of 5 (Start time: 12:42:03 PM, 06 March 2022)

Total Mark:

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
- Cusp
- Isolated point
- Node

Go to Question / Go to Next Question



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

Select the correct option

- | | |
|----------------------------------|----------------|
| <input type="radio"/> | sphere |
| <input checked="" type="radio"/> | paraboloid |
| <input type="radio"/> | cone |
| <input type="radio"/> | right cylinder |

Go to See Answer / Move to Next Question



The flat shapes are studied in _____ geometry.

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Select the correct option

- differential
- plane
- solid
- spherical

Go to Save Answer / Move to Next Question

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

- sphere
- paraboloid
- hyperboloid
- cone

Go to Previous Question / Next Question

BC200417878: MUBASHAR IQBAL

Time Left 86 sec(s)

MTH403 Quiz No. 3

Quiz Start Time: 12:36 PM, 06 March 2022

Question # 1 of 3 (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.

Select the correct option

Reload Math Equations

- elliptic
- hyperbolic
- circular
- parabolic

Go to Question / Go to Next Question



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

- Cusp
- Conjugate point
- Node
- All of them

Click All/None/Answer & Move to Next Question





For the curve $x^2 + y^3 - 3axy = 0$, the tangents at the origin are $x = 0$ and $y = 0$, then the origin is a

Select the correct option

Reload Math Equations

- Isolated point
- Node
- None of these
- Cusp

Submit Your Answer & Move to Next Question





BC200408355: MARYAM ARSHAD

MTH403:Quiz No. 3

Quiz Start Time: 12:28

Question # 5 of 5 (Start time: 12:32:15 PM, 06 March 2022)

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

Select the correct option


- pth order
- rth order
- sth order
- Multiple order

Click to Save Answer / Move to I



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
- (d) both (a) and (b)
- (b) parallel
- (a) perpendicular 

Go to Question / Answer / Review / Next Question





Quiz

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Question # 4 of 5 (Start time: 12:31:04 PM, 06 March 2022)

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

Select the correct option

- | | |
|----------------------------------|------------|
| <input type="radio"/> | paraboloid |
| <input type="radio"/> | cylinder |
| <input checked="" type="radio"/> | sphere |
| <input type="radio"/> | cone |

Click to Save An



Points of inflection and multiple points are the types of

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Select the correct option

- Singular point
- Double point
- End points
- None of these

Go to Question / Answer / Review / Next Question






Question # 1 of 5 (Start time: 12:29:32 PM, 06 March 2022)

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

Select the correct option

- | | |
|-----------------------|---|
| <input type="radio"/> | Ellipsoid |
| <input type="radio"/> | Hyperboloid of one sheet |
| <input type="radio"/> | Hyperboloid of two sheets  |
| <input type="radio"/> | Paraboloid |





ATH403:Quiz No. 3

Quiz Star

Question # 2 of 5 (Start time: 12:29:26 PM, 06 March 2022)

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

Select the correct option

- | | |
|----------------------------------|-------------|
| <input type="radio"/> | $y^2 = 4x$ |
| <input type="radio"/> | $y = 16x$ |
| <input type="radio"/> | $y^2 = -4x$ |
| <input checked="" type="radio"/> | $y^2 = 16x$ |



Click to Save Ans



BC200408355: MARYAM ARSHAD

MTH403:Quiz No. 3

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

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

Select the correct option


<input type="radio"/>	Ellipsoid
<input checked="" type="radio"/>	Hyperboloid of two sheets
<input type="radio"/>	Paraboloid
<input type="radio"/>	Hyperboloid of one sheet

MTH403:Quiz No. 3

Question # 4 of 5 (Start time: 12:17:55 PM, 06 March

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

Select the correct option

<input type="radio"/>	Elliptic paraboloid 
<input type="radio"/>	Hyperbolic paraboloid
<input type="radio"/>	Hyperboloid of two sheets
<input type="radio"/>	Hyperboloid of one sheet



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

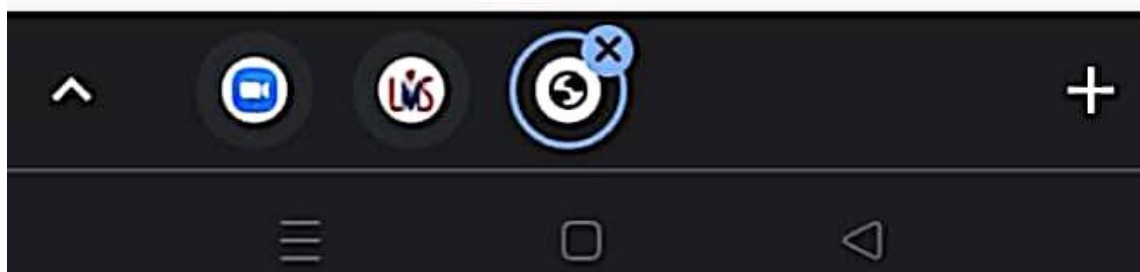
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Select the correct option


<input type="radio"/>	solid geometry
<input checked="" type="radio"/>	trigonometry
<input type="radio"/>	plane geometry
<input type="radio"/>	spherical geometry

[Click to Save Answer & Move to Next Question](#)



Ellipsoid is symmetrical about ____.

Select the correct option


- | | | |
|-----------------------|-------------------------|---|
| <input type="radio"/> | (d) All (a),(b) and (c) |  |
| <input type="radio"/> | (c) xz-plane | |
| <input type="radio"/> | (a) xy-plane | |
| <input type="radio"/> | (b) yz-plane | |

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$$\frac{x^2}{16} + \frac{y^2}{25} = \frac{z^2}{30}, \text{ is the equation of } \underline{\hspace{2cm}}.$$

Select the correct option

[Reload Math Equations](#)


- | | |
|-----------------------|--|
| <input type="radio"/> | cylinder |
| <input type="radio"/> | cone |
| <input type="radio"/> | paraboloid |
| <input type="radio"/> | sphere  |

[Click to See Answer & Move to Next Question](#)

$$\frac{x^2}{4} + \frac{y^2}{9} + 1 = \frac{z^2}{16}, \text{ is an equation of } \underline{\hspace{2cm}}$$

Select the correct option

[Reload Math Equations](#)

- | | | |
|-----------------------|---------------------------|--|
| <input type="radio"/> | Hyperboloid of two sheets |  |
| <input type="radio"/> | Paraboloid | |
| <input type="radio"/> | Hyperboloid of one sheet | |
| <input type="radio"/> | Ellipsoid | |


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Question # 5 of 5 (Start time: 12:18:58 PM, 06 March 2022

If two tangents at the origin are imaginary then the origin is a

Select the correct option

<input type="radio"/>	None of these
<input type="radio"/>	Node
<input type="radio"/>	Cusp
<input type="radio"/>	Conjugate point



Question # 1 of 5 (Start time: 12:15:03 PM, 06 March 2022)

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

Select the correct option

Derivative

Node

Cusp

Both (a) and (b)



Question # 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

Select the correct option

Reloa

Isolated point

Both (a) and (b)

Cusp

Node

