Question # 5 of 5 (Start time: 02:38:45 PM, 06 March 2022) Total Marks: 1

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

- sphere
- pyramid
- cube
- tetrahedron

Click to Save Answer & Move to Next Question

Question # 4 of 5 (Start time: 02:37:54 PM, 06 March 2022) Total Marks: 1

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

Select the correct option

Reload Math Equations

- Conjugate point
- Node
- Isolated point
- Cusp ✓

Click to Save Answer & Move to Next Question

MTH403:Quiz No. 3

Quiz Start Time: 02:35 PM, 06 March 2022

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 the correct option

- right cylinder
- sphere
- cone
- paraboloid ✓

Click to Save Answer & Move to Next Question

Question # 2 of 5 (Start time: 02:36:02 PM, 06 March 2022) Total Marks: 1

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

Select the correct option

Reload Math Equations

- no trace
- $x = \pm z$ ✓
- $x = \pm \frac{y}{3}$
- $y = \pm 3z$

Question # 3 of 5 (Start time: 02:36:50 PM, 06 March 2022) Total Marks: 1

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

Select the correct option

Reload Math Equations

- parabolic
- elliptic
- 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
- Cusp
- Node
- 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* $f_{xy}(a,0)$

Select the correct option

- ○ Cusp
- ○ Conjugate point
- ○ Node ✔
- ○ Isolated point

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

Total Marks: 1

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

Select the correct option

Reload Math Equations

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

Question # 1 of 5 (Start time: 02:30:15 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

- Node
- Isolated point
- Both (a) and (b)
- Cusp

Question # 2 of 5 (Start time: 02:31:49 PM, 06 March 2022)

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

Select the correct option

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

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: 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

- Both (a) and (b)
- Isolated point
- Node ✓
- Cusp

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

Reload Math Equations

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

Points of inflection and multiple points are the types of

Select the correct option

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

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

Select the correct option

Reload Math Equations

- circular
- parabolic
- elliptic ✓
- hyperbolic

BC200404409: FIZZA NASEER

Time Left 87 sec(s)

MTH403:Quiz No. 3

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

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.

Select the correct option

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

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

Select the correct option

Reload Math Equations

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

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

- Node
- Isolated point
- None of above
- Cusp ✓

Question # 5 of 5 (Start time: 01:08:30 PM, 06 March 2022) Total Marks: 1

A double point Q on a curve is a _____ if there exist no real points of the curve in the neighborhood of it.

Select the correct option

Reload Math Equations

- Both (b) and (c)
- Complex point
- Conjugate point
- 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

Reload Math Equations

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

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

Select the correct option

Reload Math Equations

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

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

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

Select the correct option

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

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

- Cusp
- Isolated point
- Node ✔
- Conjugate point

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
- Cusp
- Node
- Isolated point ✓

Question # 2 of 5 (Start time: 12:54:00 PM, 06 March 2022) Total Marks: 1

The flat shapes are studied in _____ geometry.

Select the correct option

- solid
- differential
- plane ✓
- spherical

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

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

Select the correct option

Reload Math Equations

- ellipsoid ✓
- hyperboloid
- paraboloid
- cone

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

- ○ Cusp
- ○ Isolated point
- ○ None of these
- ● Node

Question # 5 of 5 (Start time: 01:43:41 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

- ○ Node
- ○ Isolated point
- ○ None of above
- ● Cusp

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

Select the correct option

Reload Math Equations

- ○ -1
- ○ 2
- ○ 0
- ● 1

Ellipsoid is symmetrical about _____.

Select the correct option

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

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

Total Marks: 1

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

Select the correct option

Reload Math Equations

- sphere
- paraboloid
- cone
- cylinder

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

Question # 5 of 5 (Start time: 12:47:41 PM, 06 March 2022) Total Marks: 1

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

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question

Question # 4 of 5 (Start time: 12:46:59 PM, 06 March 2022) Total Marks: 1

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

- cube
- pyramid
- sphere ✓
- tetrahedron

Question # 3 of 5 (Start time: 12:46:29 PM, 06 March 2022) Total Marks: 1

Points of inflection and multiple points are the types of

Select the correct option

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

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
- Conjugate point
- Both (b) and (c)
- Complex point

Click to Save Answer & Move to Next Question

Question # 1 of 5 (Start time: 12:43:43 PM, 06 March 2022) Total Marks: 1

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

Select the correct option

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

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

Select the correct option

Reload Math Equations

- All of them
- Cusp
- Isolated point ✓
- Node

Click to Save Answer & Move to Next Question

Question # 4 of 5 (Start time: 12:40:15 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 the correct option

- sphere
- paraboloid 
- cone
- right cylinder

Question # 3 of 5 (Start time: 12:38:32 PM, 06 March 2022) Total Marks: 1

The flat shapes are studied in _____ geometry.

Select the correct option

- differential
- plane
- solid
- spherical

Question # 2 of 5 (Start time: 12:37:34 PM, 06 March 2022) Total Marks: 1

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

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

Total Mark

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

Select the correct option

Reload Math Equations

- elliptic
- hyperbolic
- circular
- parabolic

BC200417035: GULAM AYESHA

Time Left 88 sec(s)

MTH403:Quiz No. 3

Quiz Start Time: 12:29 PM, 06 March 2022

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

Select the correct option

- Cusp ✔
- Conjugate point
- Node
- All of them

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 the correct option

Reload Math Equations

- Isolated point
- Node ✔
- None of these
- Cusp

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

Question # 3 of 5 (Start time: 12:31:14 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.

Select the correct option

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

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

Select the correct option

- paraboloid
- cylinder
- sphere ✔
- cone

Question # 2 of 5 (Start time: 12:30:21 PM, 06 March 2022) Total Marks: 1

Points of inflection and multiple points are the types of

Select the correct option

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

Question # 3 of 5 (Start time: 12:30:25 PM, 06 March 2022) Total Marks:

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

Select the correct option

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

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

Select the correct option

○	Ellipsoid
○	Hyperboloid of one sheet ✓
○	Hyperboloid of two sheets
○	Paraboloid

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

elect the correct option

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

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

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

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

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

Select the correct option

- solid geometry
- trigonometry ✔
- plane geometry
- spherical geometry

Type text here

Ellipsoid is symmetrical about _____.

Select the correct option

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

Question # 3 of 5 (Start time: 12:22:15 PM, 06 March 2022) Total Marks: 1

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

Select the correct option

Reload Math Equations

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

uestion # 2 of 5 (Start time: 12:21:29 PM, 06 March 2024)

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

Select the correct option

Reload Math Equations

- cylinder
- cone
- parabeloid
- sphere

Question # 1 of 5 (Start time: 12:20:27 PM, 06 March 2022) Total Marks: 1

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

Select the correct option

- Spherical geometry ✓
- Spherical trigonometry
- Solid geometry
- Plane geometry

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

Select the correct option

- None of these
- Node
- Cusp
- Conjugate point ✓

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

Select the correct option

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

Question # 3 of 5 (Start time: 12:17:04 PM, 06 March 2022)

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

Select the correct option

- (●) trigonometry
- ( ) solid geometry
- ( ) spherical geometry
- ( ) plane geometry

estion # 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:

- Isolated point
- Both (a) and (b)
- Cusp
- Node

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

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

lect the correct option

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