PM, 28 January 2023)

The equation of a horizontal line passing through the point (1,2) is

Select the correct option

- $y = 1$
- $y = 2$
- $x = 1$
- $x = 2$

The equation $ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0$ represents a circle, the condition will be

Select the correct option

- f = g and c = 0
- a = b and h = 0
- f = g and h = 0 ✓
- a = b and c = 0

ime: 07:53:06 PM, 28 January 2023)

$\cos 2A =$ _____ .

Reload M

$1 - \cos^2 A$

$\cos^2 A + \sin^2 A$

$2 \sin A \cos A$

$2\cos^2 A - 1$

Click to Save Answer & Move to Ne

time: 07:52:23 PM, 28 January 2023)

$$\sin 2A = \_\_\_\_\_ .$$

Rela

$2 \sin A \cos A$

$\cos^2 A + \sin^2 A$

$1 - 2\sin^2 A$

$\cos^2 A - \sin^2 A$

Algebra and Trigonometry (Quiz #3)

Question # 6 of 10 (Start time: 07:51:44 PM, 28 January 2023)

Write the standard form of the equation of the circle with radius 11 and centre (0, 6).

Select the correct option

○	$x^2 + (y-6)^2 = 121$
○	$x^2 + (y+6)^2 = 11$
○	$(x-6)^2 + y^2 = 121$
○	$(x+6)^2 + y^2 = 121$

stion # 5 of 10 (Start time: 07:51:08 PM, 28 January 2023)

nd the center (h, k) and radius r of the circle with the given equation.

$$x^2 - 16x + 64 + (y + 3)^2 = 49$$

ect the correct option

- (h, k) = (3, −8); r = 49
- (h, k) = (−8, 3); r = 49
- (h, k) = (8, −3); r = 7
- (h, k) = (−3, 8); r = 7

Click to Save

Question # 4 of 10 (Start time: 07:49:41 PM, 28 January 2023)

Graphical and numerical methods are specialized process utilized in

Select the correct option

- ○ Social Statistics
- ○ Descriptive Statistics ✓
- ○ Education Statistics
- ○ Business Statistics

uestion # 3 of 10 (Start time: 07:48:08 PM, 28 January 2023)

Not confirm

Find the coefficient of x^4 in the expansion of $(x+4)^9$.

elect the correct option

○	327640
○	523001
○	428700
○	129024

Google Chrome updates, you'll need Windows 10 or later. This computer is us

In descriptive statistics, we study

Select the correct option

- ○ How to describe the probability distribution
- ○ The methods for organizing, displaying and describing data
- ○ none of the above
- ○ The description of the decision-making process

MTH102 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 01:33 AM, 27 January 2023

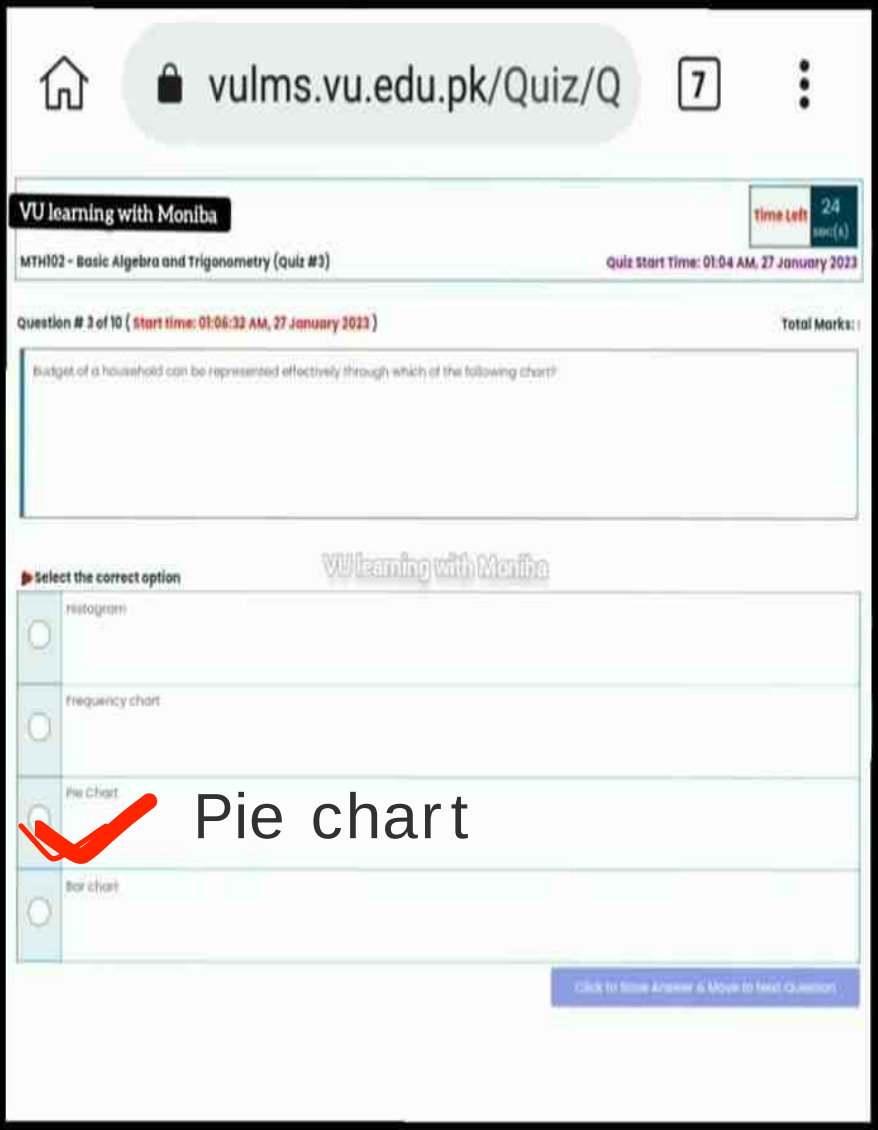
Question # 4 of 10 (Start time: 01:35:50 AM, 27 January 2023) Total Marks:

Which branch of statistics deals with the techniques that are used to organize, summarize, and present the data:

Select the correct option

- Bayesian statistics
- Advanced statistics
- Descriptive statistics
- Probability statistics

Click to Save Answer & Move to Next Question


vulms.vu.edu.pk/Quiz/Q
VU learning with Moniba
Time Left 24 sec(s)
MTH102 - Basic Algebra and Trigonometry (Quiz #3)
Quiz Start Time: 01:04 AM, 27 January 2023
Question # 3 of 10 (Start time: 01:06:32 AM, 27 January 2023)
Total Marks: 1
Budget of a household can be represented effectively through which of the following chart?
VU learning with Moniba
Select the correct option
Histogram
Frequency chart
Pie Chart
Bar chart
Pie chart
SUBSCRIBED

tion # 1 of 10 (Start time: 10:16:21 PM, 27 January 2023) Total Marks: 1

$\tan 2A =$ ____

t the correct option:

Reload Math Equations

	$\frac{2\tan A}{1-\tan^2 A}$
	$\frac{\tan^2 A}{\cos^2 A}$
	$\frac{\tan A + \tan B}{1-\tan A \tan B}$
✓	$\frac{2\tan A}{1+\tan^2 A}$

Click to Save Answer & Move to next Question

Question # 8 of 10 (Start time: 10:39:29 PM, 27 January 2021) Total Marks: 1

The centre of a circle lies in _____ of the circle

Select the correct option

- interior
- none of these
- boundary
- common

Question # 7 of 10 (Start time: 10:24:55 PM, 27 January 2023) Total Marks:

The sum formula for $\sin(A+B)$ is _____

Select the correct option

	$\sin A + \sin B$
	$\frac{\sin A - \sin B}{1 + \sin A \sin B}$
	$\frac{2\sin A}{1 + \sin^2 A}$
	$\frac{\sin A + \sin B}{1 - \sin A \sin B}$

Question # 8 of 10 (Start time: 10:22:35 PM, 27 January 2023) Total Marks: 1

Write the standard form of the equation of the circle with radius 6 and center (-3, 0).

Select the correct option

Report Math Equations

	$(x-3)^2+y^2=36$
	$x^2+(y+3)^2=6$
	$x^2+(y-3)^2=6$
✓	$(x+3)^2+y^2=36$

Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start Time: 10:21:5 PM, 27 January 2023) Total Marks: 1

The mean of a distribution is 23, the median is 24, and the mode is 25.5. It is most likely that this distribution

Select the correct option

- Positively Skewed
- Asymptotic
- Negatively Skewed
- Symmetrical

Click to Save Answer & Move to Next Question

MTH105 - General Mathematics (Quiz #3)

Quiz Start Time: 10:16 PM, 27 January 2023

Question # 4 of 10 (Start Time: 10:20:25 PM, 27 January 2023)

Total Marks:

Find the midpoint of the line segment joining the points P(-3, 2) and Q(5, 8)

Select the correct option

Reload Math Equation

(-5, -5)

(1, 5)

$\left(\frac{2}{3}, \frac{5}{3}\right)$

$\left(\frac{11}{2}, \frac{7}{2}\right)$

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 10:19:25 PM, 27 January 2023)

In statistics, a population consists of:

Select the correct option

- All subjects or objects whose characteristics are being studied
- All people living in the area under study
- All people living in a country
- none of the above

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 10:18:08 PM, 27 January 2023)

The variables whose calculation is done according to the height, length, and weight are categorised as

Select the correct option

- Flowchart Variables
- Continuous Variables
- Measuring Variables
- Discrete Variables

Click to Save Answer & Move to Next Question

MTH102 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 01:04 AM, 27 January 2023

Question # 5 of 10 (Start time: 01:09:05 AM, 27 January 2023) Total Marks: 1

The equation of a horizontal line passing through the point (1,2) is

Select the correct option

- x = 1
- y = 1
- y = 2
- x = 2

Click to Save Answer & Move to Next Question

MTH102 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 01:04 AM, 27 January 2023

Question # 4 of 10 (start time: 01:07:55 AM, 27 January 2023) Total Marks: 1

The mean of a distribution is 23, the median is 24, and the mode is 25.5. It is most likely that this distribution

Select the correct option

- Symmetrical
- Positively Skewed
- Negatively Skewed
- Asymptotic

Click to Save Answer & Move to Next Question

MTH102 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 02:31 PM, 28 January 2023

Question # 4 of 10 (Start time: 02:32:54 PM, 28 January 2023) Total Marks: 1

The sum formula for $\cos(A+B)$ is _____

Select the correct option

Reload Math Equations

- $\cos A \cos B - \sin A \sin B$
- $\sin A \cos B + \cos A \sin B$
- $\cos A \cos B + \sin A \sin B$
- $\sin A \cos B - \cos A \sin B$

Click to Save Answer & Move to Next Question

MTH102 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 02:31 PM, 28 January 2023

Question # 5 of 10 (Start time: 02:33:40 PM, 28 January 2023) Total Marks: 1

The centre of a circle lies in_____ of the circle.

Select the correct option

- none of these
- interior
- boundary
- exterior

Click to Save Answer & Move to Next Question

MTH102 - Basic Algebra and Trigonometry (Quiz #3)

Quiz Start Time: 02:31 PM, 28 January 2023

Question # 8 of 10 (Start time: 02:35:30 PM, 28 January 2023)

Total Marks: 1

Frequency Density =

Select the correct option

- Cumulative frequency/Class Width
- Class Width/Frequency
- Frequency/Class Width ✓
- Cumulative Frequency/Relative frequency

Click to Save Answer & Move to Next Question

MTH102 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 02:31 PM, 28 January 202

Question # 1 of 10 (Start time: 02:31:16 PM, 28 January 2023) Total Marks

The equation of a vertical line passing through the point (0, 0) is

Select the correct option

- x = 0
- none of the above
- x-1=0
- y = 0

Click to Save Answer & Move to Next Question

MTH102 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 01:33 AM, 27 January 2023

Question # 3 of 10 (Start time: 01:35:32 AM, 27 January 2023) Total Marks:

The equation of a horizontal line passing through the point (0,0) is

Select the correct option

- y = 0
- none of the above
- x-1 = 0
- x = 0

[redacted]

Time Left 9 sec(s)

MATH102 - Basic Algebra and Trigonometry (Quiz #3)

Quiz Start Time: 01:45 PM, 28 January 2023

Question # 8 of 10 (Start time: 01:50:07 PM, 28 January 2023) **Total Marks:** 1

In descriptive statistics, we study

Select the correct option

- ○ The methods for organizing, displaying and describing data
- ◉ none of the above
- ○ How to describe the probability distribution
- ○ The description of the decision-making process.

Saving...

Question # 10 of 10 (Start time: 07:14:37 PM, 28 January 2023)

Graphical and numerical methods are specialized process utilized in

Select the correct option

- ○ Social Statistics
- ○ Education Statistics
- ◉ Descriptive Statistics
- ○ Business Statistics

MTH302 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 10:47 PM, 28 January 2023

Question # 4 of 10 (Start time: 10:53:44 PM, 28 January 2023) Total Marks: 1

Two functions f and g are said to be identically equal if _____ for every value of x for which both functions are defined.

Select the correct option

- $g(x) = y$
- $f(x) = y$
- $f(x) + g(x)$
- $f(x) = g(x)$

MTH102 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 02:31 PM, 28 January 2023

Question # 2 of 10 (Start time: 02:31:55 PM, 28 January 2023) Total Marks:

The equation of a horizontal line passing through the point (0,0) is

Select the correct option

- x = 0
- none of the above
- y = 0
- x-1 = 0

Click to Save Answer & Move to Next Question

MTH102 - Basic Algebra and Trigonometry (Quiz #3) Quiz Start Time: 02:31 PM, 28 January 2023

Question # 9 of 10 (Start time: 02:35:57 PM, 28 January 2023) Total Marks: 1

The first term in the expansion of $\left(\frac{x}{3}+\frac{1}{x}\right)^5$ is :

Select the correct option

Reload Math Equations

- none of the above
- $\frac{1}{5}\left(\frac{x}{4}\right)$
- $10x^5$
- $\left(\frac{x}{3}\right)^5$

Click to Save Answer & Move to Next Question

MTH102 - Basic Algebra and Trigonometry (Quiz #3)

Quiz Start Time: 10:47 PM, 28 January 20

Question # 1 of 10 (Start time: 10:47:41 PM, 28 January 2023)

Total Mark

$\cos 2A =$ _____

Select the correct option

Reload Math Equations

- $2\sin A \cdot \cos A$
- $2\cos^2 A - 1$
- $\cos^2 A + \sin^2 A$
- $1 - \cos^2 A$

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 07:41:39 PM, 28 January 2023)

For applying the binomial theorem, $(1.09)^{11}$ *can be written as*

Select the correct option

○	$(1+0.09)^{11}$
○	none of the above
○	$(1-0.06)^{11}$
○	$(1+0.009)^{11}$

Question # 9 of 10 (Start time: 07:41:49 PM, 28 January 2023)

The equation of a vertical line passing through the point (1,2) is

Select the correct option

- ○ $x = 2$
- ○ $y = 2$
- ○ $x = 1$
- ○ $y = 1$

Question # 8 of 10 (Start time: 07:42:03 PM, 28 January 2023)

Find the midpoint of the line segment joining the points P(1 , 3) and Q(6, 8).

Select the correct option

○	(7, 11)
○	$\left(\frac{11}{2}, \frac{7}{2}\right)$
○	(-5, -5)
○	$\left(\frac{7}{2}, \frac{11}{2}\right)$ ✓

Question # 10 of 10 (Start time: 07:42:29 PM, 28 January 2023)

If a variable cannot take a numerical value then the variable is called

Select the correct option

- ○ constant variable
- ○ discrete variable
- ○ qualitative variable
- ○ continuous variable

Question # 9 of 10 (Start time: 07:45:55 PM, 28 January 2023)

Write the standard form of the equation of the circle with radius 11 and centre (0, 6).

Select the correct option

○	$x^2 + (y + 6)^2 = 11$
○	$x^2 + (y - 6)^2 = 121$
○	$(x + 6)^2 + y^2 = 121$
○	$(x - 6)^2 + y^2 = 121$

Question # 5 of 10 (Start time: 07:42:58 PM, 28 January 2023)

A quantitative variable which can take any value in a given range is called

Select the correct option

○	discrete variable
○	none of these
○	continuous variable
○	simple variable

Pieces of numerical and non-numerical information are called data

Select the correct option

- False
- True

Question # 4 of 10 (Start time: 07:42:13 PM, 28 January 2023)

The _____ of a trigonometric function is the height from the mean (or the rest) value of the trigonometric function to its maximum or minimum value.

Select the correct option

○	angle
○	range
○	amplitude
○	period

Question # 7 of 10 (Start time: 07:45:10 PM, 28 January 2023)

The sum formula for $tan(A + B)$ is _____.

Select the correct option

○	$\frac{2\tan A}{1-\tan^2 A}$
○	$\tan A + \tan B$
○	$\frac{\tan A - \tan B}{1 + \tan A \ \tan B}$
○	$\frac{\tan A + \tan B}{1 - \tan A \ \tan B}$ ✓

...thematics (Quiz #3)

Question # 9 of 10 (Start time: 08:05:49 PM, 28 January 2023)

Find the center (h, k) and radius r of the circle with the given equation.

$$[(x^2] - 16x + 64 + [(y + 3)^2] = 49$$

Select the correct option

	(h, k) = (8, -3); r = 7
	(h, k) = (-3, 8); r = 7
	(h, k) = (-8, 3); r = 49
	(h, k) = (8, -8); r = 49

Question # 10 of 10 (Start time: 07:46:47 PM, 28 January 2023)

The first term in the expansion of $\left(\frac{x}{3}+\frac{1}{x}\right)^5$ *is :*

Select the correct option

	$\left(\frac{x}{3}\right)^5$
none	
	$10x^5$
	$\frac{1}{5}\left(\frac{x}{4}\right)$

Question # 1 of 10 (Start time: 07:57:59 PM, 28 January 2023)

The centre of a circle lies in _____ of the circle.

Select the correct option

- none of these
- exterior
- boundary
- interior

Question # 8 of 10 (Start time: 07:45:42 PM, 28 January 2023)

The equation $x^2 + y^2 - 2x + 4y + 5 = 0$ represents

Select the correct option

○	A pair of straight lines
○	A point
○	A circle
○	None of these

Question # 6 of 10 (Start time: 07:44:01 PM, 28 January 2023)

$\sin 2A = \_\_\_\_\_.$

Select the correct option

○	$2 \sin A \cos A$
○	$1 - 2\sin^2 A$
○	$\cos^2 A + \sin^2 A$
○	$\cos^2 A - \sin^2 A$

Question # 9 of 10 (Start time: 07:46:13 PM, 28 January 2023)

$\cos 2A =$ _____ .

Select the correct option

○	$2\sin A \ \cos A$
○	$2\cos^2 A - 1$
○	$\cos^2 A + \sin^2 A$
○	$1 - \cos^2 A$

Question # 3 of 10 (Start time: 08:11:28 PM, 28 January 2023)

For applying the binomial theorem, $(1.09)^{11}$ *can be written as*

Select the correct option

- none of the above
- $(1+0.09)^{11}$
- $(1-0.06)^{11}$
- $(1+0.009)^{11}$

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https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=3cca4603-537d-4869-92cd-b62ecadf7c89

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BC220402832 MUHAMMAD ABU BAKAR

MTH100 - General Mathematics (Quiz #3)

Question # 7 of 10 (Start time: 08:03:20 PM, 28 January 2023)

The mean of a distribution is 23, the median is 24, and the mode is 25.5. It is most likely that this distribution:

Select the correct option

- Positively Skewed
- Asymptotic
- Symmetrical
- Negatively Skewed

Question # 1 of 10 (Start time: 08:09:10 PM, 28 January 2023)

The algebraic sum of deviations from mean is:

Select the correct option

- ○ Minimum
- ○ zero ✓
- ○ Undefined
- ○ Maximum

Question # 3 of 10 (Start time: 08:00:04 PM, 28 J

Which one is not the measure of dispersion.

Select the correct option

- The range
- Variance
- Inter-Quartile range
- 50th Percentile

nuary 2023)

For applying the binomial theorem, $(1.09)^{11}$ *can be written as*

$(1 + 0.09)^{11}$

$(1 + 0.009)^{11}$

$(1 - 0.06)^{11}$

Question # 10 of 10 (Start time: 09:39:14 PM, 28 January 2023)

Two functions f and g are said to be identically equal if _____ for every value of x for which both functions are defined.

Select the correct option

- $f(x) + g(x)$
- $f(x) = g(x)$
- $f(x) = y$
- $g(x) = y$

Question # 8 of 10 (Start time: 08:17:30 PM, 28 January 2023)

In statistics, a population consists of:

Select the correct option

- All people living in the area under study
- none of the above
- All people living in a country
- All subjects or objects whose characteristics are being studied

Click

Question # 5 of 10 (Start time: 08:13:10 PM, 28 January 2023)

The number of accidents in a city during 2020 is

Select the correct option

- (●) Continuous variable
- ( ) Discrete variable
- ( ) Qualitative variable
- ( ) constant

Click to Save An

Which one is not the measure of dispersion.

Select the correct option

- The range
- Variance
- Inter-Quartile range
- 50th Percentile

Power reducing formula for $cos^2 A$ is _____

Select the correct option

- $1 - \cos^2 A$
- $\frac{\cos 2A + 1}{2}$ ✓
- $\frac{1 - \cos 2A}{2}$
- $\frac{2 \tan A}{1 + \tan^2 A}$

Question # 10 of 10 (Start time: 08:19:10 PM, 28 January 2023)

Write the standard form of the equation of the circle with radius 6 and centre (-3, 0).

Select the correct option

- $x^2 + (y+3)^2 = 6$
- $(x+3)^2 + y^2 = 36$
- $(x-3)^2 + y^2 = 36$
- $x^2 + (y-3)^2 = 6$

Click t

Question # 7 of 10 (Start time: 08:16:00 PM, 28 January 2023)

Which branch of statistics deals with the techniques that are used to organize, summarize, and present the data:

Select the correct option

- Probability statistics
- Descriptive statistics ✓
- Advanced statistics
- Bayesian statistics

Click to Save Answer

Question # 4 of 10 (Start time: 08:12:22 PM, 28 January 2023)

Pieces of numerical and non-numerical information are called data

Select the correct option

- True
- False

Click to Save

Question # 2 of 10 (Start time: 08:10:06 PM, 28 January 2023)

The equation of a horizontal line passing through the point (0,0) is

Select the correct option

- x-1 = 0
- x = 0
- none of the above
- y = 0

Click to Save

In statistics, a population consists of:

Select the correct option

- All subjects or objects whose characteristics are being
- none of the above
- All people living in the same region
- All people living in a country

Question # 9 of 10 (Start time: 06:18:24 PM, 28 January 2023)

In inferential statistics, we study

Select the correct option

- How to make decisions about mean, median, or mode
- How a sample is obtained from a population
- The methods to make decisions about the population based on sample results
- none of the above ✓

Question # 1 of 10 (Start time: 08:21:35 PM, 28 January 2022)

The equation of a vertical line passing through the point (1,2) is

Select the correct option

- y = 2
- x = 1
- y = 1
- x = 2

Question # 3 of 10 (Start time: 09:31:52 PM, 28 January 2023)

Power reducing formula for $cos^2 A$ is _____.

Select the correct option

- $\frac{\cos 2A + 1}{2}$
- $\frac{1 - \cos 2A}{2}$
- $1 - \cos^2 A$
- $\frac{2 \tan A}{1 + \tan^2 A}$

Question # 4 of 10 (Start time: 09:32:55 PM, 28 January 202

The algebraic sum of deviations from mean is:

Select the correct option

- ○ Maximum
- ○ Minimum
- ○ Undefined
- ○ zero ✓

Question # 6 of 10 (Start time: 09:34:32 PM, 28 January 2023)

The difference formula for $sin(A - B)$ is _____

Select the correct option

- $\sin A \cos B - \cos A \sin B$
- $\cos A \cos B - \sin A \sin B$
- $\cos A \cos B + \sin A \sin B$
- $\sin A \cos B + \cos A \sin B$

Question # 2 of 10 (Start time: 09:31:20 PM, 28 January 2023)

Pieces of numerical and non-numerical information are called data

Select the correct option

- ○ True
- ○ False

Question # 5 of 10 (Start time: 09:33:34 PM, 28 January 2023)

The equation $x^2 + y^2 - 2x + 4y + 5 = 0$ represents

Select the correct option

- A point
- A circle
- A pair of straight lines
- None of these

Question # 1 of 10 (Start time: 09:27:28 PM, 28 January 2023) **Total Marks:** 1

The sum formula for $\cos(A+B)$ is _____

Select the correct option

Reload Math Equations

- $\cos A \cos B - \sin A \sin B$
- $\sin A \cos B + \cos A \sin B$
- $\cos A \cos B + \sin A \sin B$
- $\sin A \cos B - \cos A \sin B$

Click to Save Answer & Move to Next Question

Question # 7 of 10 (Start time: 09:35:57 PM, 28 January 2023)

The equation of a vertical line passing through the point (1,2) is

Select the correct option

- $y = 2$
- $y = 1$
- $x = 1$
- $x = 2$

Question # 8 of 10 (Start time: 09:37:38 PM, 28 January 2023)

Which one is not the measure of dispersion.

Select the correct option

- 50th Percentile
- Inter-Quartile range
- Variance
- The range

Question # 4 of 10 (Start time: 08:53:01 PM, 20 January 2023) Total Marks: 1

The sum formula for $\cos(A + B)$ is _____

Select the correct option

Refresh with Assistance

- $\sin A \cos B - \cos A \sin B$
- $\cos A \cos B - \sin A \sin B$
- $\sin A \cos B + \cos A \sin B$
- $\cos A \cos B - \sin A \sin B$ ✓

Click to Save Answer & Move to Next Question

Question # 1 of 10 (Start time: 09:30:20 PM, 28 January 2023)

For applying the binomial theorem, $(1.09)^{11}$ *can be written as*

Select the correct option

- $(1+0.09)^{11}$
- $(1+0.009)^{11}$
- none of the above
- $(1-0.06)^{11}$

MTH100 - General Mathematics (Quiz #3)

Question # 9 of 10 (Start time: 09:38:35 PM, 28 January 2023)

Pieces of numerical and non-numerical information are called data

Select the correct option

- ○ True
- ○ False