5:30 PM
Quiz
quiz.vu.edu.pk

200402301: MUHAMMAD IMRAN FARHAT

H632:Quiz No. 2 Quiz Start Time:

stion # 5 of 10 (Start time: 05:30:41 PM, 07 July 2022)

set S is said to be _____ set if for every pair of points z1, z2∈S there is a curve C joining them which is entirely contained in S.

ect the correct option

- connected
- unconnected
- unbounded
- bounded

Click to Save Answer & Mo

46% 8:32 pm

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MTH632:Quiz No. 2

Quiz

Question # 2 of 10 (Start time: 08:32:23 PM, 07 July 2022)

Domain of the function

$$f(z) = \frac{1}{z^2 + 1}$$

is _____

Select the correct option

- $z \neq \pm i$
- $z \neq \pm 2$
- $z \neq \pm 1$
- $z \neq 0$

45% 8:37 pm

quiz.vu.edu.pk

MAN BUTT

Quiz Start Time: 08:

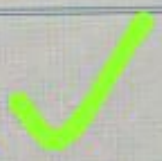
tart time: 08:36:07 PM, 07 July 2022)

If we write the function $w = z^2 - z$ *as* $w = u(x, y) + iv(x, y)$, *then* $v(x, y) =$

option

$x^2 - x - y^2$

$2xy - y$



Click to Save Answer & Move to

MC210202144: USMAN BUTT

MTH632:Quiz No. 2

Question # 9 of 10 (Start time: 08:40:53 PM, 07 July 2022)

How many fourth roots of $16i$ exist?

Select the correct option

- ○ 4
- ○ 2
- ○ 1
- ○ 3

2 45% 8:39 pm

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MTH632:Quiz No. 2

Question # 8 of 10 (Start time: 08:39:27 PM, 07 July 2022)

The third roots of $2i$ are _____ .

Select the correct option

- $\sqrt[3]{2}\, e^{i\left(\frac{\pi}{6}+\frac{2k\pi}{3}\right)}, \quad k = 0, 1, 2$ ✓
- $\sqrt[3]{3}\, e^{i\left(\frac{\pi}{6}+\frac{2k\pi}{3}\right)}, \quad k = 0, 1, 2$

45% 8:38 pm

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MC210202144: USMAN BUTT

MTH632:Quiz No. 2

Question # 7 of 10 (Start time: 08:38:47 PM, 07 July 2022)

The closed disc with radius r and center z_0 is represented by _____

Select the correct option

- $|z - z_0| \leq r$
- $|z - z_0| = r$
- $|z - z_0| < r$
- $|z - z_0| > r$

9:05 12.0 KB/S 4G 75
quiz.vu.edu.pk/Qu 3

MC220204122: SAJIDA PARVEEN

Time Left 89 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 3 of 10 (Start time: 09:05:18 PM, 07 July 2022)

Total Marks: 1

If we write the function $w = z^2 - z$ *as* $w = u(x, y) + iv(x, y)$, *then* $u(x, y) =$

Select the correct option

Reload Math Equations

- $x^2 - y^2$
- None of these
- $x^2 + y^2$
- $x^2 - x - y^2$ ✓

Click to Save Answer & Move to Next Question

9:03

27.0 KB/S 4G 75

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MC220204122: SAJIDA PARVEEN

Time Left 87 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 2 of 10 (Start time: 09:03:57 PM, 07 July 2022)

Total Marks: 1

If the 5th roots of unity are _____.

Select the correct option

Reload Math Equations

- $e^{i\left(\frac{2k\pi}{5}\right)}, \; k = 0, 1, 2, 3, 4$
- $2e^{i\left(\frac{2k\pi}{5}\right)}, \; k = 0, 1, 2, 3, 4$
- $5e^{i\left(\frac{2k\pi}{5}\right)}, \; k = 0, 1, 2, 3$
- $e^{i\left(\frac{2k\pi}{5}\right)}, \; k = 0, 1, 2, 3$

Click to Save Answer & Move to Next Question

9:12 5.00 KB/S 4G 72
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MC220204122: SAJIDA PARVEEN

Time Left 89 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 9 of 10 (Start time: 09:12:19 PM, 07 July 2022)

Total Marks: 1

The _____ guarantees that a simple closed curve must enclose a region.

Select the correct option

Reload Math Equations

- Simple curve Theorem
- Jordan curve Theorem
- Rotation curve Theorem
- Euler curve Theorem

Click to Save Answer & Move to Next Question

9:08 23.0 KB/S 4G 72
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MC220204122: SAJIDA PARVEEN

Time Left 86 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 6 of 10 (Start time: 09:08:40 PM, 07 July 2022)

Total Marks: 1

The concept of neighbourhood in xy-plane can be understood with the help of _____.

Select the correct option

Reload Math Equations

- line
- parallelogram
- rectangle
- circle

Click to Save Answer & Move to Next Question

MC210202144: USMAN BUTT

MTH632:Quiz No. 2

Question # 10 of 10 (Start time: 08:41:39 PM, 07 July 2022)

A connected open set is called a _____.

Select the correct option

- domain
- range
- closed set
- unbounded set

45% 8:37 pm

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MC210202144: USMAN BUTT

MTH632:Quiz No. 2

Question # 6 of 10 (Start time: 08:37:38 PM, 07 July 2022)

The function $f(z) = 1 + z + z^2 + z^3 + z^4 \cdots$ is_____.

Select the correct option

- not a polynomial
- a polynomial

5:28 PM
Quiz
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MTH632:Quiz No. 2

Question # 3 of 10 (Start time: 05:28:12 PM, 07 July

The domain of the function $f(z) = \frac{1}{z^4}$ is

Select the correct option

- $C \setminus \{0\}$
- $C \setminus \{1\}$
- $C \setminus \{2\}$
- $C \setminus \{3\}$

5:32 PM 3.5 K/s 23

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MC200402301: MUHAMMAD IMRAN FARHAT

MTH632:Quiz No. 2

Question # 6 of 10 (Start time: 05:32:22 PM, 07 July 2022)

The function $f(z) = 1 + z + z^2$ is_____.

Select the correct option

- a polynomial.
- not a polynomial.

5:34 PM
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MC200402301: MUHAMMAD IMRAN FARHAT

MTH632:Quiz No. 2

Question # 8 of 10 (Start time: 05:34:23 PM, 07 July 2022)

The domain of the function $f(z) = \frac{1}{(z-2)^4}$ is _____

Select the correct option

- $C \setminus \{2\}$
- $C \setminus \{0\}$
- $C \setminus \{3\}$
- $C \setminus \{1\}$

5:27 PM 3.4 K/s 24

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IMRAN FARHAT

Quiz Start

5:27:28 PM, 07 July 2022)

A closed disc with center z_0 and radius ε is defined by

$|z_1 - z_0| \leqslant \varepsilon$

$|z_1 - z_0| \geqslant \varepsilon$

Click to Save Answer

5:33 PM 24.9 K/s 23

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MC200402301: MUHAMMAD IMRAN FARHAT

MTH632:Quiz No. 2

Question # 7 of 10 (Start time: 05:32:57 PM, 07 July 2022)

If initial point and terminal points are equal, then the curve C is said to be_____.

Select the correct option

- open curve
- simple curve
- parallel curve
- closed curve ✓

46%

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MC210202144: USMAN BUTT

MTH632:Quiz No. 2

Question # 1 of 10 (Start time: 08:30:51 PM, 07 July 2022)

The open disc with radius r and center z_0 is represented by _____.

Select the correct option

- $|z - z_0| < r$
- $|z - z_0| \leq r$
- $|z - z_0| > r$
- $|z - z_0| = r$

46% 8:33 pm

quiz.vu.edu.pk

MC210202144: USMAN BUTT

MTH632:Quiz No. 2

Question # 3 of 10 (Start time: 08:33:20 PM, 07 July 2022)

Let $z = 5e^{\frac{i\pi}{6}}$, then $z^{20} =$ _____.

Select the correct option

- $z^{20} = 5^{10}e^{\frac{10\ i\ \pi}{6}}$
- $z^{20} = 5^{20}e^{\frac{10\ i\ \pi}{3}}$ ✓

5:36 PM 26.6 K/s 22

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C200402301: MUHAMMAD IMRAN FARHAT

TH632:Quiz No. 2

Quiz Start Time: 05:26

estion # 10 of 10 (Start time: 05:36:45 PM, 07 July 2022)

If the nth roots of unity are $z_0^{\frac{1}{n}} = e^{i\left(\frac{2k\pi}{n}\right)}$, $k = 0, 1, 2, \ldots, n-1$, then $\omega_n =$ ____

lect the correct option

- $w_n = e^{i\left(\frac{2k\pi}{n}\right)}$
- $w_n = e^{i\left(\frac{2\pi}{k}\right)}$
- $w_n = e^{i(2k\pi)}$
- $w_n = e^{i\left(\frac{2\pi}{n}\right)}$ ✓

Click to Save Answer & Move to N

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MC200402301: MUHAMMAD IMRAN FARHAT

MTH632:Quiz No. 2

Question # 9 of 10 (Start time: 05:35:37 PM, 07 July 2022)

Let $f(z) = z - \bar{z}$, then $f(x+iy) =$ _____.

Select the correct option

○	$2y$
○	$2x$
○	$i\,(2x)$
○	$i\,(2y)$ ✓

5:29 PM

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MC200402301: MUHAMMAD IMRAN FARHAT

MTH632:Quiz No. 2

Question # 4 of 10 (Start time: 05:29:55 PM, 07 July 2022)

Let $f(z) = z^2 + 1$, then $f(x + iy) =$ _____.

Select the correct option

- $x^2 + 1 + i\,(2xy)$
- $x^2 - y^2 + 1 + i\,(2xy)$ ✓
- $x^2 - y^2 + 1 + i\,(xy)$
- $x^2 - y^2 + i\,(2xy)$

9:32

Quiz
quiz.vu.edu.pk

MC210203384: FATIMA HAMEED

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 4 of 10 (Start time: 09:32:09 PM, 07 July 2022)

Total Marks: 1

The polar form of the complex function $f(z) = z^3$ is _____.

Select the correct option

Reload Math Equations

- $r^2 (\cos 3\theta + i \sin 3\theta)$
- $r^3 (\cos 3\theta + i \sin 3\theta)$ 

Click to Save Answer & Move to Next Question

9:31

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MC210203384: FATIMA HAMEED

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 3 of 10 (Start time: 09:31:21 PM, 07 July 2022)

Total Marks: 1

Domain of the function

$$f(x) = \frac{1}{x^2 - 1}$$

is _____

Select the correct option

Reload Math Equations

- $x \neq \pm 1$
- $x \neq \pm i$
- $x \neq \pm 2$
- $x \neq 0$

Click to Save Answer & Move to Next Question

9:29

Quiz
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MC210203384: FATIMA HAMEED

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 1 of 10 (Start time: 09:29:32 PM, 07 July 2022)

Total Marks: 1

If the 6th roots of unity are _____.

Select the correct option

Reload Math Equations

- $6e^{i\left(\frac{2k\pi}{6}\right)}, \quad k = 0, 1, 2, 3, 4, 5,$
- $e^{i\left(\frac{2k\pi}{6}\right)}, \quad k = 0, 1, 2, 3, 4$
- $2e^{i\left(\frac{2k\pi}{6}\right)}, \quad k = 0, 1, 2, 3, 4, 5$
- $e^{i\left(\frac{2k\pi}{6}\right)}, \quad k = 0, 1, 2, 3, 4, 5$ ✓

Click to Save Answer & Move to Next Question

9:30

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MC210203384: FATIMA HAMEED

Time Left 89 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 2 of 10 (Start time: 09:30:38 PM, 07 July 2022)

Total Marks: 1

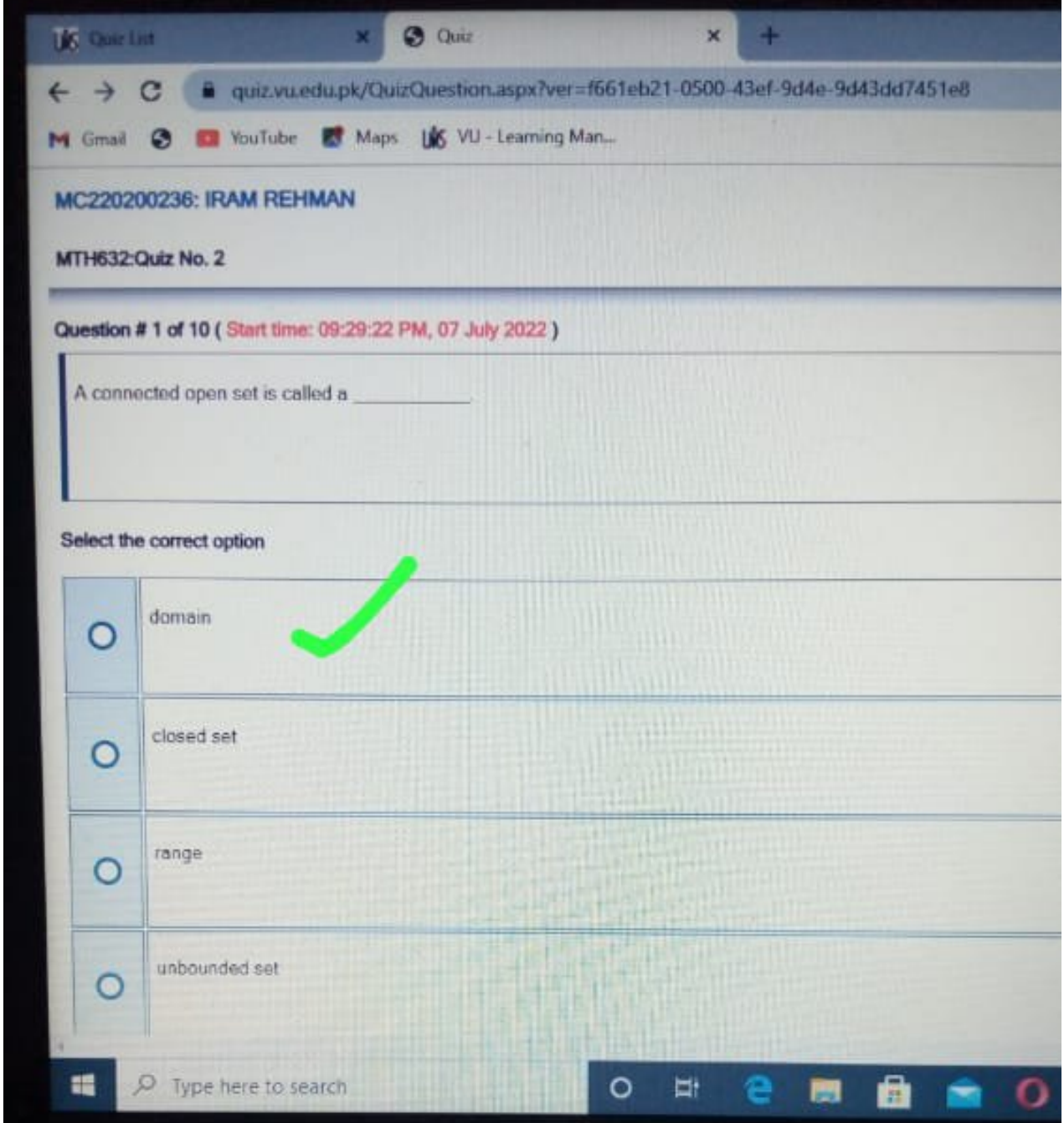
If we write the function $w = z^2 - z$ *as* $w = u(x, y) + iv(x, y)$, *then* $v(x, y) =$

Select the correct option

Reload Math Equations

- $2xy - y$
- $x^2 - x - y^2$

Click to Save Answer & Move to Next Question


Quiz List
Quiz
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Maps
VU - Learning Man...
MC220200236: IRAM REHMAN
MTH632:Quiz No. 2
Question # 1 of 10 (Start time: 09:29:22 PM, 07 July 2022)
A connected open set is called a _____.
Select the correct option
domain
closed set
range
unbounded set
Type here to search

9:05 12.0 KB/S 4G 75
quiz.vu.edu.pk/Qu 3

MC220204122: SAJIDA PARVEEN

Time Left 89 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 3 of 10 (Start time: 09:05:18 PM, 07 July 2022)

Total Marks: 1

If we write the function $w = z^2 - z$ *as* $w = u(x, y) + iv(x, y)$, *then* $u(x, y) =$

Select the correct option

Reload Math Equations

- $x^2 - y^2$
- None of these
- $x^2 + y^2$
- $x^2 - x - y^2$

Click to Save Answer & Move to Next Question

9:02 1.00 KB/S 4G 75
quiz.vu.edu.pk/Qu 3

MC220204122: SAJIDA PARVEEN

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 1 of 10 (Start time: 09:02:43 PM, 07 July 2022)

Total Marks: 1

Domain of the function

$$f(z) = \frac{1}{z^2 - 1}$$

is _____.

Select the correct option

Reload Math Equations

- $z \neq 0$
- $z \neq \pm 1$
- $z \neq \pm 2$
- $z \neq \pm i$

Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 09:20:12 PM, 07 July 2022) Total Marks: 1

The distance between two complex numbers z_1 and z_2 is

Select the correct option

Reload Math Equations

- $|z_1 + z_2|$
- $|z_1 - z_2|$



Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 09:19:15 PM, 07 July 2022) Total Marks: 1

Domain of the function

$$f(z) = \frac{1}{z + \bar{z}}$$

is _____.

Select the correct option

Reload Math Equations

- $z \neq \pm i$
- $z \neq \pm 1$
- $z \neq \pm 2$
- $z \neq 0$

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 09:16:38 PM, 07 July 2022) Total Marks: 1

The three cube roots of the number -8i are

Select the correct option

Reload Math Equations

- $2\exp\left[i\left(-\frac{\pi}{6}+\frac{2k\pi}{3}\right)\right],\ k=0,1$
- $2\exp\left[i\left(-\frac{\pi}{6}+\frac{2k\pi}{3}\right)\right],\ k=0,1,2$ ✓

Click to Save Answer & Move to Next Question

9:08 23.0 KB/S 4G 72
quiz.vu.edu.pk/Qu 3

MC220204122: SAJIDA PARVEEN

Time Left 86 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 6 of 10 (Start time: 09:08:40 PM, 07 July 2022)

Total Marks: 1

The concept of neighbourhood in xy-plane can be understood with the help of _____.

Select the correct option

Reload Math Equations

- line
- parallelogram
- rectangle
- circle

Click to Save Answer & Move to Next Question

9:12 5.00 KB/S 4G 72
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MC220204122: SAJIDA PARVEEN

Time Left 89 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 9 of 10 (Start time: 09:12:19 PM, 07 July 2022)

Total Marks: 1

The _____ guarantees that a simple closed curve must enclose a region.

Select the correct option

Reload Math Equations

- Simple curve Theorem
- Jordan curve Theorem
- Rotation curve Theorem
- Euler curve Theorem

Click to Save Answer & Move to Next Question

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MC220204122: SAJIDA PARVEEN

Time Left 89 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 10 of 10 (Start time: 09:13:26 PM, 07 July 2022)

Total Marks: 1

A number u is said to be an nth root of complex number z if $u^n = z$.

Select the correct option

Reload Math Equations

- True
- False

Click to Save Answer & Move to Next Question

9:11

22.0 KB/S 4G 72

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MC220204122: SAJIDA PARVEEN

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:02 PM, 07 July 2022

Question # 8 of 10 (Start time: 09:11:03 PM, 07 July 2022)

Total Marks: 1

The domain of the function $f(z) = \frac{1}{2z - \bar{z}}$ is _____.

Select the correct option

Reload Math Equations

- $C \setminus \{\pm 2\}$
- $C \setminus \{0\}$ ✓
- $C \setminus \{\pm i\}$
- $C \setminus \{\pm 1\}$

Click to Save Answer & Move to Next Question

LMS

MTH632:Quiz No. 2

Quiz Start Time: 09:15 PM, 07 July 2022

Question # 1 of 10 (Start time: 09:15:38 PM, 07 July 2022)

Total Marks: 1

A curve is called _____ if it does not cross itself.

Select the correct option

Reload Math Equations

- simple curve
- open curve
- closed curve
- parallel curve

Click to Save Answer & Move to Next Question

MTH632:Quiz No. 2

Quiz Start Time: 09:15 PM, 07 July 2022

Question # 3 of 10 (Start time: 09:17:20 PM, 07 July 2022)

Total Marks: 1

The domain of the function $f(z) = \frac{1}{z^1}$ is _____.

Select the correct option

Reload Math Equations

- $C \setminus \{0\}$
- $C \setminus \{2\}$
- $C \setminus \{1\}$
- $C \setminus \{3\}$

Click to Save Answer & Move to Next Question

MTH632:Quiz No. 2

Quiz Start Time: 09:15 PM, 07 July 2022

Question # 4 of 10 (Start time: 09:18:25 PM, 07 July 2022)

Total Marks: 1

The function $f(x) = \frac{1}{x}$ is _____.

Select the correct option

Reload Math Equations

- a polynomial
- not a polynomial

Click to Save Answer & Move to Next Question

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275 messages from 5 chats

Question # 8 of 10 (Start time: 09:22:09 PM, 07 July 2022) Total Marks: 1

The polar form of the complex function $f(z) = z^2$ is

Select the correct option

Reload Math Equations

- $r^2(cos2\theta + isin2\theta)$
- $r^2(cos\theta + isin\theta)$

Click to Save Answer & Move to Next Question

MTH632:Quiz No. 2

Quiz Start Time: 09:15 PM, 07 July 2022

Question # 9 of 10 (Start time: 09:22:59 PM, 07 July 2022)

Total Marks: 1

The domain of the function $f(z) = \frac{1}{(z-2i)^3}$ is _____.

Select the correct option

Reload Math Equations

- $C \setminus \{2\}$
- $C \setminus \{2i\}$
- $C \setminus \{3i\}$
- $C \setminus \{i\}$

Click to Save Answer & Move to Next Question

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MC220200236: IRAM REHMAN

MTH632:Quiz No. 2

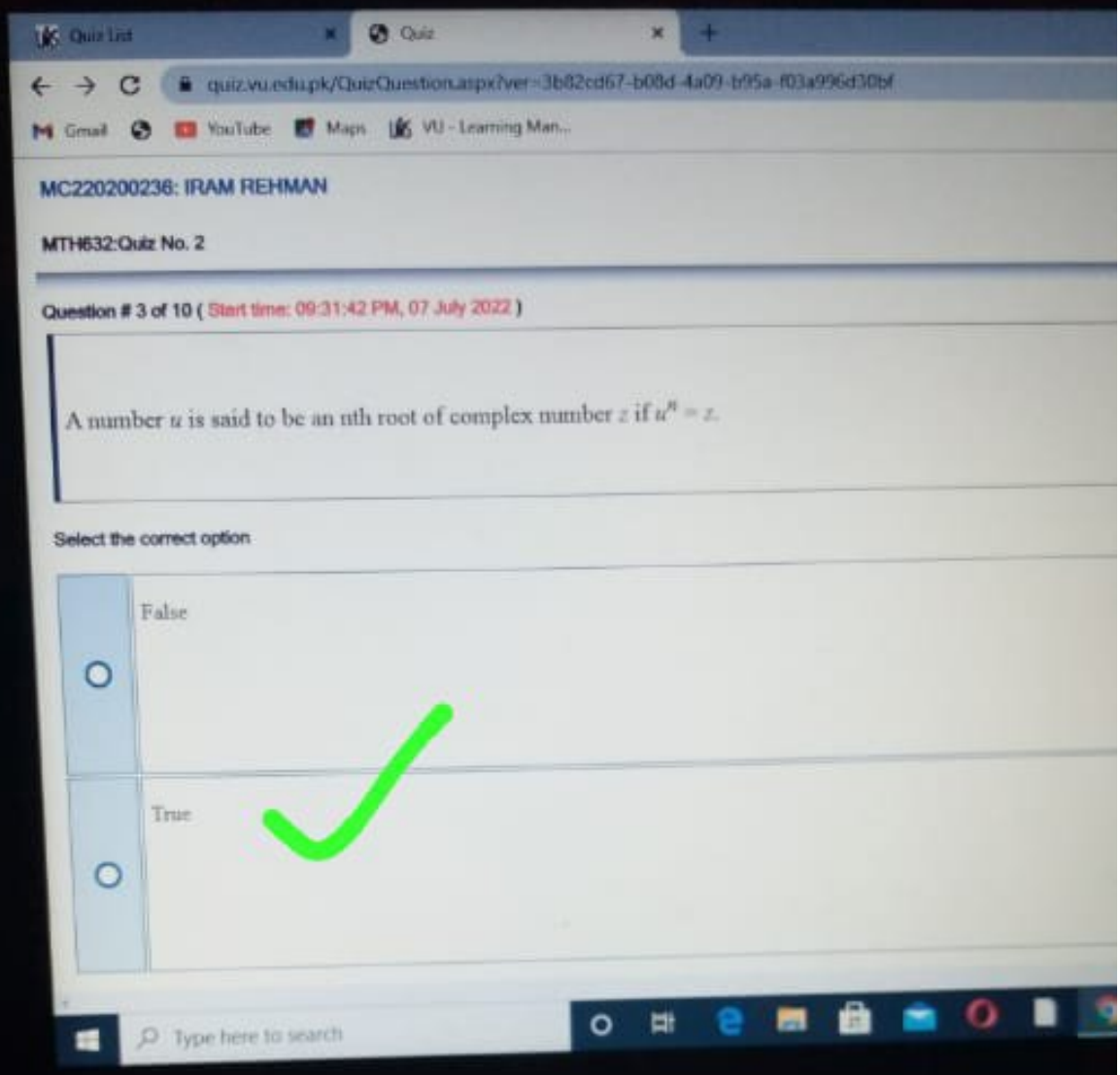
Question # 2 of 10 (Start time: 09:30:48 PM, 07 July 2022)

If initial point and terminal points are equal, then the curve C is said to be_____.

Select the correct option

- simple curve
- closed curve
- parallel curve
- open curve

Type here to search


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MC220200236: IRAM REHMAN
MTH632:Quiz No. 2
Question # 3 of 10 (Start time: 09:31:42 PM, 07 July 2022)
A number u is said to be an nth root of complex number z if $u^n = z$.
Select the correct option
False
True
Type here to search

9:35

Quiz
quiz.vu.edu.pk

MC210203384: FATIMA HAMEED

Time Left 87 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 6 of 10 (Start time: 09:35:02 PM, 07 July 2022)

Total Marks: 1

The closed disc with radius r and center z_0 is represented by _____.

Select the correct option

Reload Math Equations

- $|z - z_0| = r$
- $|z - z_0| \leq r$ ✓
- $|z - z_0| > r$
- $|z - z_0| < r$

Click to Save Answer & Move to Next Question

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38

MC210201006: SEHRISH RASHEED

Time Left 87 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:39 PM, 07 July 2022

Question # 7 of 10 (Start time: 09:47:03 PM, 07 July 2022)

Total Marks: 1

How many fourth roots of $16i$ exist?

Select the correct option

Reload Math Equations

- 3
- 4 ✓
- 2
- 1

Click to Save Answer & Move to Next Question

9:46

20.0 K/s

Quiz
quiz.vu.edu.pk

: MUHAMMAD JUNAID RAZA

lo. 2

Quiz Start Ti

10 (Start time: 09:46:25 PM, 07 July 2022)

$$The\ value\ of\ w = \frac{1}{z}\ when\ z = 2 - i\ is$$

ct option

$\frac{1}{5}(2+i)$

$\frac{1}{5}(2-i)$

Click to Save Answer &

9:45 21.1 K/s

Quiz
quiz.vu.edu.pk

BC180402537: MUHAMMAD JUNAID RAZA

MTH632:Quiz No. 2

Question # 6 of 10 (Start time: 09:45:20 PM, 07 July 2022)

Let $z = 2e^{\frac{i\pi}{2}}$, then $z^{500} =$ _____.

Select the correct option

- $z^{500} = 5^{500} e^{\frac{500\ i\pi}{3}}$
- $z^{500} = 2^{500} e^{250\ i\pi}$



9:45 75%
quiz.vu.edu.pk/Quiz(
38

MC210201006: SEHRISH RASHEED

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:39 PM, 07 July 2022

Question # 6 of 10 (Start time: 09:45:13 PM, 07 July 2022)

Total Marks: 1

The punctured open disc with radius r and center z_0 is represented by _____.

Select the correct option

Reload Math Equations

- $0 < |z - z_0| < r$
- $|z - z_0| > r$
- $|z - z_0| = r$
- $|z - z_0| \leq r$

Click to Save Answer & Move to Next Question

9:44

Quiz
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BC180402537: MUHAMMAD JUNAID RAZA

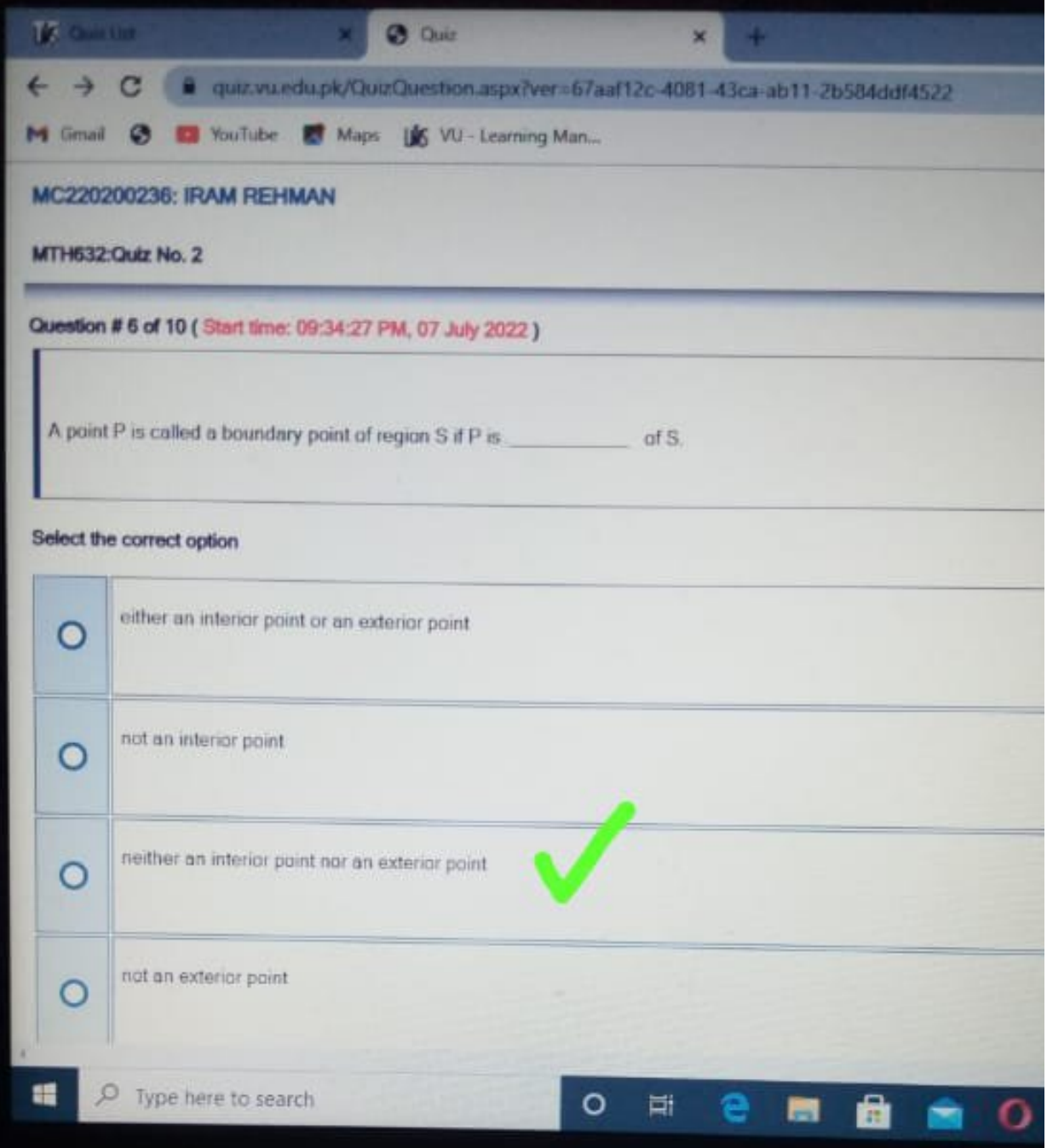
MTH632:Quiz No. 2

Question # 5 of 10 (Start time: 09:44:29 PM, 07 July 2022)

Let $f(z) = z^2 + 1$, then $f(x + iy) =$ _____.

Select the correct option

- $x^2 - y^2 + i\,(2xy)$
- $x^2 + 1 + i\,(2xy)$
- $x^2 - y^2 + 1 + i\,(2xy)$ ✓
- $x^2 - y^2 + 1 + i\,(xy)$


Quiz List
Quiz
quiz.vu.edu.pk/QuizQuestion.aspx?ver=67aaf12c-4081-43ca-ab11-2b584ddf4522
Gmail
YouTube
Maps
VU - Learning Man...
MC220200236: IRAM REHMAN
MTH632:Quiz No. 2
Question # 6 of 10 (Start time: 09:34:27 PM, 07 July 2022)
A point P is called a boundary point of region S if P is _____ of S.
Select the correct option
either an interior point or an exterior point
not an interior point
neither an interior point nor an exterior point
not an exterior point
Type here to search

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MC210201006: SEHRISH RASHEED

Time Left 89 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:39 PM, 07 July 2022

Question # 5 of 10 (Start time: 09:44:08 PM, 07 July 2022)

Total Marks: 1

A curve is called _____ if it does not cross itself.

Select the correct option

Reload Math Equations

- simple curve
- closed curve
- parallel curve
- open curve

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Time Left 89 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:39 PM, 07 July 2022

Question # 4 of 10 (Start time: 09:43:01 PM, 07 July 2022)

Total Marks: 1

The values of $(2i)^{\frac{1}{3}}$ are _____.

Select the correct option

Reload Math Equations

- $2^{\frac{1}{3}}e^{i\left(\frac{i\pi}{6}+\frac{2k\pi}{3}\right)}, \quad k = 0, 1$
- $2^{\frac{1}{3}}e^{i\left(\frac{i\pi}{6}+\frac{2k\pi}{3}\right)}, \quad k = 0, 1, 2$ ✓

Click to Save Answer & Move to Next Question

III O <

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BC180402537: MUHAMMAD JUNAID RAZA

MTH632:Quiz No. 2

Question # 3 of 10 (Start time: 09:42:38 PM, 07 July 2022)

If the 6th roots of unity are _____.

Select the correct option

- $e^{i\left(\frac{2k\pi}{6}\right)}, \quad k = 0, 1, 2, 3, 4, 5$
- $6e^{i\left(\frac{2k\pi}{6}\right)}, \quad k = 0, 1, 2, 3, 4, 5,$
- $e^{i\left(\frac{2k\pi}{6}\right)}, \quad k = 0, 1, 2, 3, 4$
- $2e^{i\left(\frac{2k\pi}{6}\right)}, \quad k = 0, 1, 2, 3, 4, 5$

Quiz

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MC220200236: IRAM REHMAN

MTH632:Quiz No. 2

Question # 10 of 10 (Start time: 09:39:14 PM, 07 July 2022)

Domain of the function

$$f(z) = \frac{1}{z^2 - 1}$$

is _____.

Select the correct option

- $z \neq \pm 1$
- $z \neq \pm i$
- $z \neq \pm 2$
- $z \neq 0$

Type here to search

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Quiz
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MC210203384: FATIMA HAMEED

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 9 of 10 (Start time: 09:38:37 PM, 07 July 2022)

Total Marks: 1

If $p(z)$ is a polynomial of degree n ($n > 0$) with complex coefficients, then equation $P(z) = 0$ has precisely (counting multiplicities) n solutions.

Select the correct option

Reload Math Equations

- False
- True



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9:35

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MC210203384: FATIMA HAMEED

Time Left 87 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 6 of 10 (Start time: 09:35:02 PM, 07 July 2022)

Total Marks: 1

The closed disc with radius r and center z_0 is represented by _____.

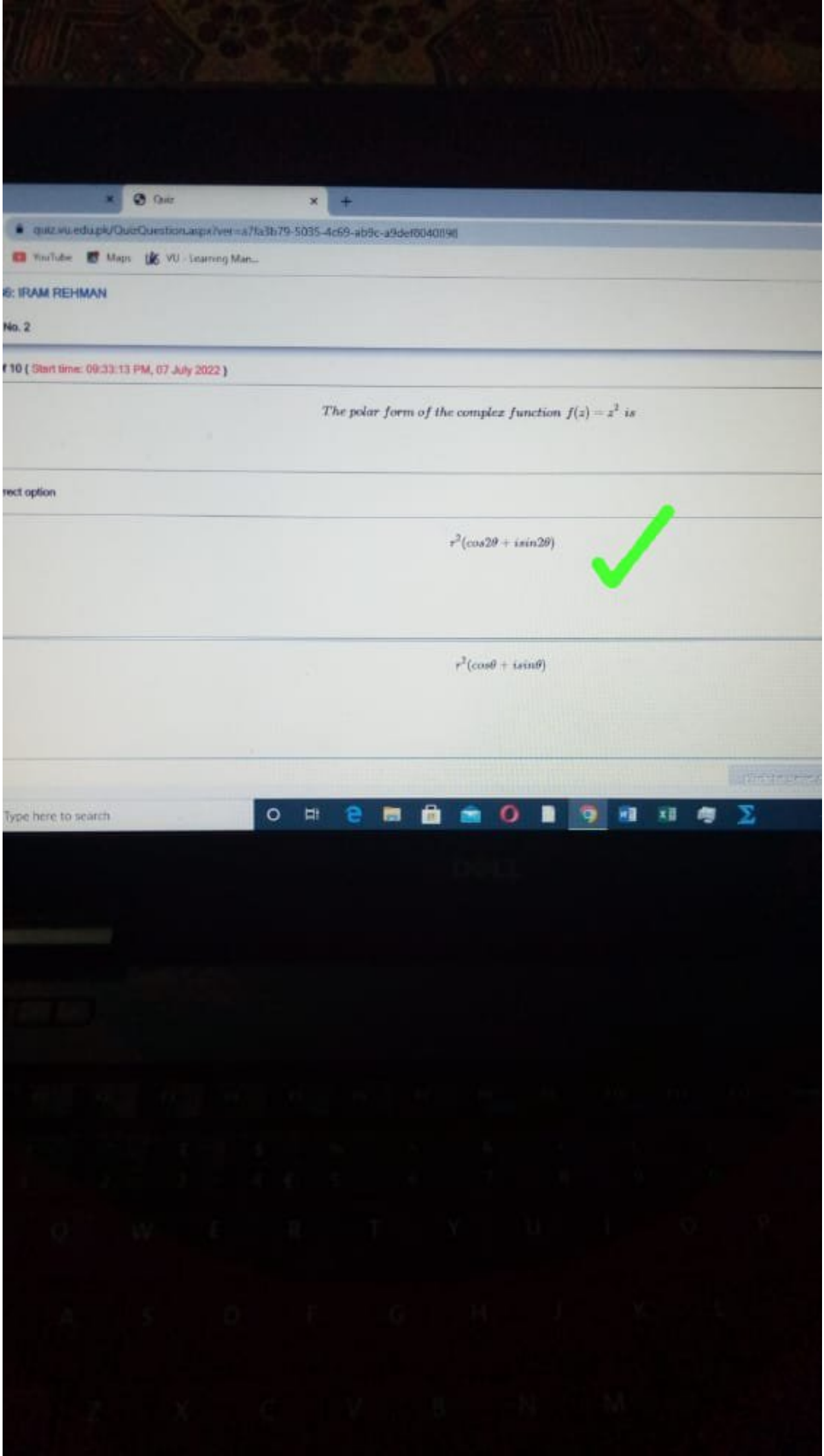
Select the correct option

Reload Math Equations

- $|z - z_0| = r$
- $|z - z_0| \leq r$
- $|z - z_0| > r$
- $|z - z_0| < r$

Click to Save Answer & Move to Next Question

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6: IRAM REHMAN
No. 2
10 (Start time: 09:33:13 PM, 07 July 2022)
The polar form of the complex function $f(z) = z^2$ is
rect option
$r^2(cos2\theta + isin2\theta)$
$r^2(cos\theta + isin\theta)$
Type here to search

Quiz List | Quiz

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MC220200236: IRAM REHMAN

MTH632:Quiz No. 2

Question # 8 of 10 (Start time: 09:36:49 PM, 07 July 2022)

The function $f(z) = \frac{1}{z}$ is _____.

Select the correct option

- not a polynomial
- a polynomial



Type here to search

4G 4G 9:36 4G 51

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MC210203384: FATIMA HAMEED

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 7 of 10 (Start time: 09:36:18 PM, 07 July 2022)

Total Marks: 1

For which values of z is $w = \frac{1}{z}$ defined?

Select the correct option

Reload Math Equations

- w is defined for all $z \neq 0$,
- w is defined for all $z = 0$,

Click to Save Answer & Move to Next Question

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MC220200236: IRAM REHMAN

MTH632:Quiz No. 2

Question # 7 of 10 (Start time: 09:35:54 PM, 07 July 2022)

Let $f(z) = z - \bar{z}$, then $f(x+iy) =$ _____.

Select the correct option

- $2y$
- $2x$
- $i\,(2x)$
- $i\,(2y)$

Type here to search

9:37 ··· 51

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Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 8 of 10 (Start time: 09:37:19 PM, 07 July 2022)

Total Marks: 1

Let $z = 5e^{\frac{i\pi}{6}}$, then $z^{20} =$ _____.

Select the correct option

Reload Math Equations

- $z^{20} = 5^{10}e^{\frac{10\ i\ \pi}{6}}$
- $z^{20} = 5^{20}e^{\frac{10\ i\ \pi}{3}}$

Click to Save Answer & Move to Next Question

Quiz

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MC220200236: IRAM REHMAN

MTH632:Quiz No. 2

Question # 9 of 10 (Start time: 09:38:01 PM, 07 July 2022)

Domain of the function

$$f(z) = \frac{1}{z^2}$$

is _____

Select the correct option

- $z \neq \pm 2$
- $z \neq \pm i$
- $z \neq 0$
- $z \neq \pm 1$

Type here to search

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MC210201006: SEHRISH RASHEED

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:39 PM, 07 July 2022

Question # 1 of 10 (Start time: 09:39:11 PM, 07 July 2022)

Total Marks: 1

Let $z = 2e^{\frac{i\pi}{2}}$, then $z^{500} =$ _____.

Select the correct option

Reload Math Equations

- $z^{500} = 5^{500}e^{\frac{500\ i\pi}{2}}$
- $z^{500} = 2^{500}e^{250\ i\pi}$

Click to Save Answer & Move to Next Question

4G 4G 9:39 ··· 4G 51

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MC210203384: FATIMA HAMEED

Time Left 89 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:29 PM, 07 July 2022

Question # 10 of 10 (Start time: 09:39:44 PM, 07 July 2022)

Total Marks: 1

A closed disc with center z_0 and radius ε is defined by

Select the correct option

Reload Math Equations

- $|z_1 - z_0| \leq \varepsilon$ ✓
- $|z_1 - z_0| \geqslant \varepsilon$

Click to Save Answer & Move to Next Question

9:39

63.6 K/s

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MTH632:Quiz No. 2

Question # 1 of 10 (Start time: 09:39:26 PM, 07 July 2022)

The third roots of $2i$ are _____.

Select the correct option

○	$\sqrt[3]{3}\, e^{i\left(\frac{\pi}{6}+\frac{2k\pi}{5}\right)}, \quad k = 0, 1, 2$
○	$\sqrt[3]{2}\, e^{i\left(\frac{\pi}{6}+\frac{2k\pi}{3}\right)}, \quad k = 0, 1, 2$



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MC210201006: SEHRISH RASHEED

Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:39 PM, 07 July 2022

Question # 3 of 10 (Start time: 09:40:26 PM, 07 July 2022)

Total Marks: 1

The real and imaginary parts of the polar form of the complex function $f(z) = z^4$ are _____.

Select the correct option

Reload Math Equations

- $U(r, \theta) = r^4 \cos 4\theta,\ V(r, \theta) = r^4 \sin 4\theta$
- $U(r, \theta) = r^2 \cos 4\theta,\ V(r, \theta) = r^2 \sin 4\theta$
- $U(r, \theta) = r^4 \cos 3\theta,\ V(r, \theta) = r^4 \sin 3\theta$
- $U(r, \theta) = r^2 \cos 3\theta,\ V(r, \theta) = r^2 \sin 3\theta$

Click to Save Answer & Move to Next Question

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Time Left 88 sec(s)

MTH632:Quiz No. 2

Quiz Start Time: 09:39 PM, 07 July 2022

Question # 2 of 10 (Start time: 09:40:52 PM, 07 July 2022)

Total Marks: 1

If we write the function $w = z^2 - z$ as $w = u(x, y) + iv(x, y)$, then $v(x, y) =$

Select the correct option

Reload Math Equations

- $x^2 - y^2$
- $2xy - y$ ✓

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9:43 20.6 K/s

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MTH632:Quiz No. 2

Question # 4 of 10 (Start time: 09:43:53 PM, 07 July 2022)

Let $f(z) = z - \bar{z}$, then $f(x+iy) =$ _____.

Select the correct option

○	$i\,(2x)$
○	$2y$
○	$i\,(2y)$
○	$2x$