

MTH632 – Complex Analysis and Differential Geometry (Quiz No. 1)

Question # 2 of 5 (**Start time: 12:04:59 AM, 01 February 2022**)

Conjugate of complex number $-7 - 4i$ is _____.

Select the correct option

☐	$-7 - 4i$
☐	$7 - 4i$
☐	$-7 + 4i$ 
☐	$7 + 4i$

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Question # 1 of 5 (**Start time: 12:04:20 AM, 01 February 2022**)

The x - axis is called _____.

Select the correct option

☐	an imaginary axis
☐	a real axis 

Question # 4 of 5 (Start time: 12:06:13 AM, 01 February 2022)

Total Marks:

If f approaches two complex numbers $L_1 \neq L_2$ for two different curves or paths through z_0 then the $\lim_{z \rightarrow z_0} f(z)$ _____.

Select the correct option



Reload Math Equations



does not exist



exists

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Question # 5 of 5 (**Start time: 12:07:05 AM, 01 February 2022**)

Let $z = 1 + i$, then $r =$ _____.

Select the correct option

☐	1
☐	$\sqrt{3}$
☐	2
☒	$\sqrt{2}$ 

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Question # 3 of 5 (Start time: 12:05:38 AM, 01 February 2022)

Conjugate of complex number $8 + 3i$ is _____.

Select the correct option

☐	$-8 - 3i$
☐	$-8 + 3i$
☐	$8 + 3i$
☐	$8 - 3i$ 

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Question # 3 of 5 (**Start time: 12:11:44 AM, 01 February 2022**)

Let $z = 7i$, then $r =$ _____.

Select the correct option

☐	2
☐	4
☐	1
☐	7 

Question # 4 of 5 (Start time: 12:12:21 AM, 01 February 2022)

Let $z\bar{z} = 64$, then $|z| =$

Select the correct option

☐	-8
☐	64
☒	8
☐	-64

$|z\bar{z}| = |z|^2$
 $|z| = 8$

Question # 5 of 5 (Start time: 12:14:02 AM, 01 February 2022)

$$(1 + i)^2 = \underline{\hspace{2cm}}.$$

Select the correct option

☐	0+2i
☐	1+2i
☐	1+i
☐	1-2i



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Question # 2 of 5 (**Start time: 12:23:50 AM, 01 February 2022**)

Difference of complex numbers $(4 + 2i)$ and $(1 + 8i)$ is _____.

Select the correct option

☐	$(3 - 10i)$
☐	$(5 - 6i)$
☐	$(5 - 10i)$
☐	$(3 - 6i)$ 

Question # 4 of 5 (Start time: 12:25:27 AM, 01 February 2022)

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

Select the correct option

- | | |
|----------------------------------|--|
| ☒ | closed curve  |
| ☐ | parallel curve |
| ☐ | open curve |
| ☐ | simple curve |

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Question # 5 of 5 (**Start time: 12:27:02 AM, 01 February 2022**)

Product of complex numbers $(3 + 2i)$ and $(1+7i)$ is _____.

Select the correct option

☐	$3+9i$
☐	$4+9i$
☐	$-11+23i$ 
☐	$3+14i$

Question # 1 of 5 (**Start time: 12:23:10 AM, 01 February 2022**)

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

Select the correct option

☐	parallel curve
☐	closed curve
☐	simple curve 
☐	open curve

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Question # 1 of 5 (**Start time: 12:09:53 AM, 01 February 2022**)

The associative law shows that _____.

Select the correct option

☐	$z_1 + z_2 = z_2 + z_1$
☐	$z + w = z$
☐	$z_1 (z_2 + z_3) = (z_1 z_2 + z_1 z_3)$
☐	$(z_1 + z_2) + z_3 = z_1 + (z_2 + z_3)$ 

Question # 5 of 5 (**Start time: 09:33:16 AM, 01 February 2022**)

Let $z = 7i$, then $r = \underline{\hspace{2cm}}$.

Select the correct option

☐	2
☐	4
☐	1
☒	7 

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Question # 1 of 5 (**Start time: 09:30:56 AM, 01 February 2022**)

Let $z = 1 + i$, then $\text{Arg}(z) = \text{-----}$.

Select the correct option

☐	$2\pi/4$
☐	$3\pi/4$
☐	$4\pi/4$
☒	$\pi/4$ 

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Question # 2 of 5 (**Start time: 09:31:44 AM, 01 February 2022**)

Sum of complex numbers $(3 + 2i)$ and $(1 + 7i)$ is _____.

Select the correct option

☐	$3+14i$
☐	$3+9i$
☒	$4 + 9i$ 
☐	$3+7i$

In an Argand diagram, the complex number $z = 2i$ will be a point _____.

Select the correct option



2 units along the positive imaginary axis



2 units along the positive real axis

Question # 3 of 5 (Start time: 09:32:10 AM, 01 February 2022)

The solution of the equation $x^2 + x + 1 = 0$ lies in the set $\mathbb{R}$ of real numbers.

Select the correct option

☐	True
☒	False