

MTH210

Question: The complex conjugate of the complex number $z = a + ib$ is _____

Answer: $a - ib$

Question: The general polynomial in x over R of degree 2 is called _____ polynomial

Answer: quadratic

Question: The complex number $z = x + iy$ is said to be purely imaginary if y is _____

Answer: zero

Answer: 0

Question: If $z = 3 + 4i$, then $|z|$ is _____

Answer: 5

Question: If $z = 5 - 12i$, then $|z|$ is _____

Answer: 13

Question: If $z = -3 - 4i$, then $|z|$ is _____

Answer: 5

Question: If $z = -5 - 12i$, then $|z|$ is _____

Answer: 13

Question: The principle that if $P(n)$ be a statement about a positive integer n , such that $P(1)$ is true, and if $P(m)$ is true for some m in N , then $P(m + 1)$ is true, and $P(n)$ is true for every n in Z is called _____

Answer: induction

Question: The sum of $(-1 - 3i)$ and $(9 - 6i)$ is _____

Answer: $(8 - 9i)$

Answer: $8 - 9i$

Question: The sum of $(-2 - 5i)$ and $(9 + 6i)$ is _____

Answer: $(7 + i)$

Answer: $7 + i$

Question: The sum of $(-2 - 7i)$ and $(-9 + 6i)$ is _____

Answer: $-11 - i$

Answer: $(-11 - i)$

Question: The sum of $-3i$ and $(5 - 6i)$ is ____
Answer: $(5 - 9i)$

Answer: $5-9i$

Question: The image is a large, rectangular block of text that appears to be a base64-encoded string. It contains a mix of uppercase and lowercase letters, numbers, and special characters, including spaces and punctuation. The text is arranged in a single line, wrapping around the width of the page. It is likely a placeholder for a logo or a very low-quality scan of a document, as the characters are difficult to decipher and the overall appearance is noisy and distorted.

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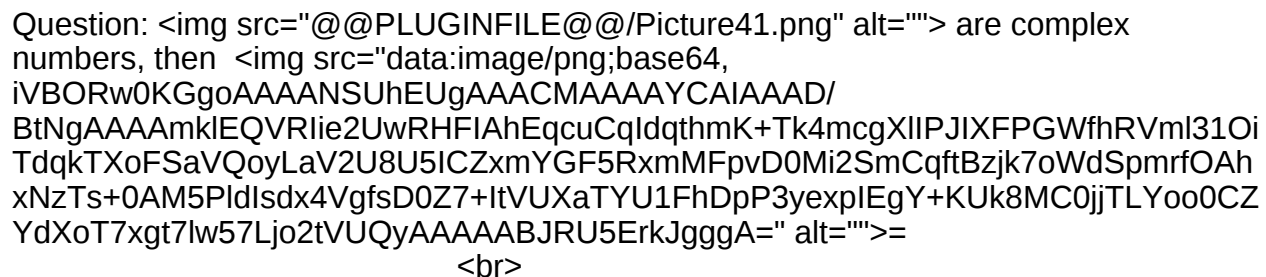
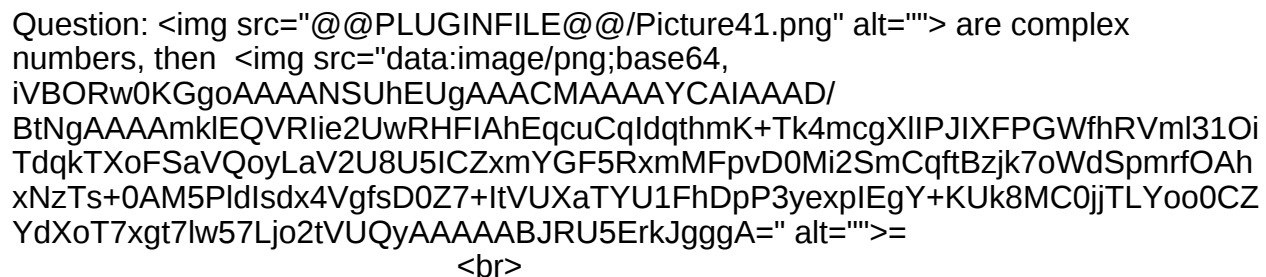
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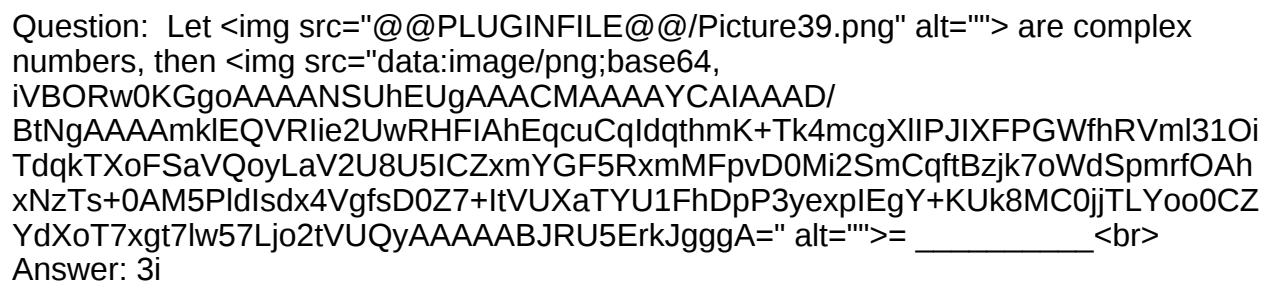
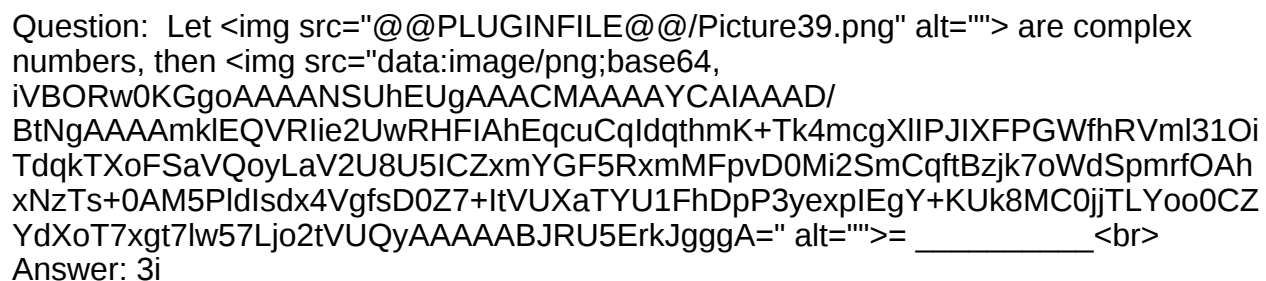
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Answer: De Moivre's

Answer: De Moivre's

Question:  are complex numbers, then ,
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Answer: $2(\cos 4 + i \sin 4)$

Question: Let  are complex numbers, then ,
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Answer: $3i$

Answer: $3i$

Question: The difference between $(2 - 3i)$ and $(-5 + 8i)$ is ____

Answer: $(7 - 11i)$

Question: $(-3 - 4i) - (-1 - 7i)$ is ____

Answer: $(-2 + 3i)$

Answer: $-2 + 3i$

Question: The values of x and y in $3x - 5i = -12 - iy$ is ____

Answer: -4 and 5

Question: If $z = 6 + 3i$ then $\frac{1}{z}$ is ____

Answer: $\frac{6 - 3i}{37}$

Question: A function $f(z)$ is _____ at c if $\lim_{z \rightarrow c} f(z) = f(c)$

Answer: Continuous

Question: If $z_1, z_2, \dots, z_n$ are complex numbers, then $|z_1 + z_2 + \dots + z_n| \leq |z_1| + |z_2| + \dots + |z_n|$

Answer: 2

Question: Let $z_1, z_2, \dots, z_n$ are complex numbers, then $|z_1 z_2 \dots z_n| = |z_1| |z_2| \dots |z_n|$

Answer: $|z_1| |z_2| \dots |z_n|$

Answer: $|z_1| |z_2| \dots |z_n|$

Question: The set of all numbers that are rational is ____

Answer: finite

Question: If we have a function $f(z)$ takes on different values as z increases by Δz then the point z is called a _____ of the function

Answer: branch point

Question: If $f(z)$ is continuous in a closed and bounded region R , then $|f(z)|$ is

_____ in the region

Answer: bounded

Question: If an analytic function is smooth, then it is $\hat{A}$ -_____

Answer: infinitely differentiable

Question: A function f is _____ if it is differentiable for all points in an open disk centred at 

Answer: holomorphic

Question: The real part of an analytic function is _____

Answer: harmonic

Question: $(-4 - 3i) - (-2 - 7i) =$ _____

Answer: $(-2 + 4i)$

Answer: $-2+4i$

Question: Let  are complex numbers, then                                  

Answer: $6(1+i)$

Question: $(4 - 3i) + (-2 - 7i) =$ _____

Answer: $(2 - 10i)$

Answer: $2-10i$

Question: The _____ measures the distance between two complex numbers $\hat{A}$

Answer: absolute value

Answer: modulus

Question: 

Answer: $2i \hat{A}$

Question: 

Answer: 0

Answer: zero

Question: 
Answer:

Answer: infinity

Question: 
Answer:

Answer: 0.2

Question: 
Answer: 2

Answer: two

Question: 
Answer:

Answer: 0.2

Question: A function $f(z)$ is complex _____ at c if 
Answer: differentiable

Question: _____ is used to represent complex numbers geometrically
Answer: Argand diagram

Question: A branch point is said to be of order _____ whenever a function is an n -valued function in the neighbourhood 
Answer: $n - 1$

Question: Sets S and T are said to be _____ if every element of S is an element of T and every element of T is an element of S .
Answer: equal

Question: A line which connects two and only two branch points is called a _____
Answer: branch cut

Answer: branch line

Question: Evaluate  = -----

Answer: $i^3 - i^2 + 1 - i$

Question: If the derivative $f'(z)$ of a function $f(z)$ has a simple pole at a point a , then $f(z)$ has a _____ point at a .

Answer: logarithmic branch

Question: Let $f(z)$ be an analytic function and if either $f(z)$ or $f'(z)$ is constant, then $f(z)$ is _____

Answer: constant

Question: Let $f(z)$ be an analytic function and if $f(z)$ is constant $f'(z)$ is constant, then $f(z)$ is _____

Answer: constant

Question: $\frac{1}{z^3}$

Answer: 3

Question: $\frac{1}{z^4}$

Answer: 4

Question: $\frac{1}{z}$

Answer: 1

Question: For complex numbers u, v, w obeys the associativity of addition property

Answer: $(u+v)+w = u+(v+w)$

Question: The polar form of the complex number $1 - i$ is given by $\sqrt{2} e^{-i\pi/4}$

Answer: $\sqrt{2} e^{-i\pi/4}$

Question: The number x in the complex number $x - iy$ is the same as $\text{Re}(x + iy)$

Answer: $\text{Re}(x + iy)$

Question: The conjugate of the conjugate of a complex number is _____

Answer: the complex number

Question: The conjugate of $1 - i$ is $1 + i$

Answer: $1 + i$

Question: The numerical value of i^{-1} in complex analysis is $-i$

Answer: -1

Question: $\frac{1}{z}$ in complex analysis is equal to $\bar{z}$ if $|z| = 1$;

Answer: 1

Question: $\frac{1}{z}$ in complex analysis is equal to $\bar{z}$ if $|z| = 1$.

Answer: $\frac{1}{z}$

Question: Two complex numbers z_1 and z_2 are equal if $z_1 = z_2$

Answer: $z_1 = z_2$

Question: If $z = x + iy$ is a complex number, then $\bar{z}$ is said to be $x - iy$ if $y \neq 0$

Answer: purely real

Question: The harmonic conjugate of the harmonic function $u(x, y)$ is given by

Answer: $v(x, y)$

Question: In an Argand diagram, the purely imaginary numbers lie along the imaginary axis

Answer: y-axis

Question: The complex conjugate of the conjugate of the complex number z is z .

Answer: z

Question: One of the following is a complex number

Answer: None of the options

Question: If $z = x + iy$ then $\bar{z} = x - iy$

Answer: 5

Question: $|z| = 1$ if $z = \frac{1}{\bar{z}}$

Answer: 4

Question: Find $|z|$ if $z = \frac{1}{\bar{z}}$

Answer: 7

Question: The complex number $z = x + iy$ has its polar form given by $z = r(\cos \theta + i \sin \theta)$.

Answer: $z = r(\cos \theta + i \sin \theta)$

Question: One of the following statements is not correct if $f(z) = u + v$ is an analytic function

Answer: a non-constant analytic function can take only real or only pure imaginary

values

Question: Let $f(z)$ be a complex function, then $f(z)$ is analytic in a domain D iff

Answer: $\bar{f}$ is a harmonic conjugate to u in D

Question: Let $z = x + iy$ be a complex number, then the argument of z is

Answer: $\tan^{-1} \frac{y}{x}$

Question: Let $f(z) = u(x, y) + i v(x, y)$ be a complex function, then the argument of z is

Answer: $\tan^{-1} \frac{v}{u}$

Question: Let $f(z) = u(x, y) + i v(x, y)$ be a complex function, then the argument of z is

Answer: $\tan^{-1} \frac{v}{u}$

Question: In an Argand diagram, the purely real numbers lie along the

Answer: x-axis

Question: All but one of the following are true

Answer: The differences of analytic functions are analytic

Question: ----- is the branch cut of inverse cosecant

Answer: $(-1, 1)$

Question: The distributive property for the complex numbers is given by

Answer: $(a + ib)(c + id) = ac - bd + i(ad + bc)$

Question: An example of Branch points is

Answer: All the options are examples

Question: One of the following is true about a continuous function

Answer: all the options are true for a continuous function

Question: One of the following conditions is not equivalent to others if f is an infinitely differentiable function defined on an open set

Answer: f is a compact function

Question: A function $f(z)$ is complex differentiable at c if

Answer: $\lim_{z \rightarrow c} \frac{f(z) - f(c)}{z - c}$ exists

Question: One of the following is not an analytic function

Answer: Absolute value function

Question: A function f is called holomorphic, if it is differentiable for all points in an open disk centred at 

Answer: holomorphic

Question:  has real solutions

Answer: no

Question: One of these expresses commutative law

Answer: 

Question: All but one of the following are true about a complex number

Answer: The imaginary part of 

Question: If ,
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Question: The Fundamental Theorem of Algebra states that

Answer: Every non-constant polynomial with coefficients in the set of complex numbers, $\mathbb{C}$ (or set of real numbers, $\mathbb{R}$) has a root in $\mathbb{C}$

Question: If 

Answer: 

Question: Simplify 

Answer: 

Question: = $\hat{\epsilon}|\hat{\epsilon}|\hat{\epsilon}|\hat{\epsilon}|\hat{\epsilon}|\hat{\epsilon}|$.

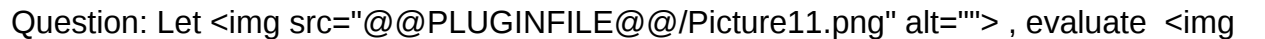
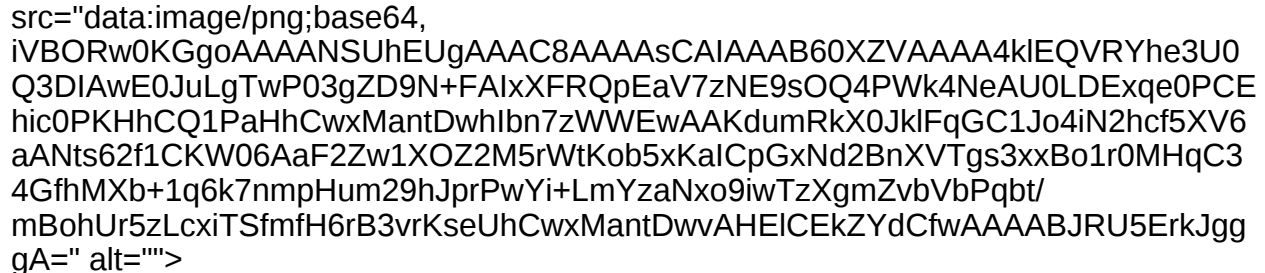
Answer: 4

Question: Evaluate using Euler's equation

Answer: -1

Question: One of the properties of the square of the absolute value is

Answer: 

Question: Let , evaluate 
iVBORw0KGgoAAAANSUgAAAC8AAAAAAsCAIAAAB60XZVAAAA4kIEQVRYhe3U0
Q3DIAwE0JuLgTwP03gZD9N+FAIxXFRQpEaV7zNE9sOQ4PWk4NeAU0LDExqe0PCE
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mBohUr5zLcxiTSfmfH6rB3vrKseUhCwxMantDwvAHEICEkZYdCfwAAAABJRU5ErkJgg
gA=" alt=""/>

Answer: 

Question: The absolute value of the conjugate of a complex number is the $\hat{\epsilon}|\hat{\epsilon}|$.

Answer: absolute value of the complex number

Question: Given that then z in polar form would be

Answer: 

Question: The conjugate of the quotient of two complex numbers is the same as

Answer: quotient of the conjugates of the two complex numbers provided the denominator is not zero

Question: Evaluate the modulus of $3 - 7i$

Answer: 58

Question: The modulus of $-3 + 7i$ is

Answer: 58

Question: If an analytic function is smooth, then it is ∞ ..

Answer: infinitely differentiable