MTH210

Question: Â The complex conjugate of the complex number z = a + ib is _____
Answer: a â€“ 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 _____Â
Answer: (8 â€“ 9i)

Answer: 8 â€“ 9 i

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 â€“ i)

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

Answer: 5-9i

Question: <img src="
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hUqVP5o/h+yHer0wUhtQQAAAABJRU5ErkJggg=" alt="">
Answer: De Moivreâ€™s

Answer: Dâ€™Moivreâ€™s

Question: <img src="@@PLUGINFILE@@/Picture41.png" alt=""> are complex numbers, then <img src="
iVBORw0KGgoAAAANSUhEUgAAACMAAAAYCAIAAAD/
BtNgAAAAmklEQVRIie2UwRHFIAhEqcuCqIdqthmK+Tk4mcgXlIPJIXFPGWfhRVml31Oi
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YdXoT7xgt7lw57Ljo2tVUQyAAAAABJRU5ErkJggg=" alt="">=
_____
Answer: 2(cos4+isin4)

Question: Let <img src="@@PLUGINFILE@@/Picture39.png" alt=""> are complex numbers, then <img src="
iVBORw0KGgoAAAANSUhEUgAAACMAAAAYCAIAAAD/
BtNgAAAAmklEQVRIie2UwRHFIAhEqcuCqIdqthmK+Tk4mcgXlIPJIXFPGWfhRVml31Oi
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xNzTs+0AM5PldIsdx4VgfsD0Z7+ItVUXaTYU1FhDpP3yexpIEgY+KUk8MC0jjTLYoo0CZ
YdXoT7xgt7lw57Ljo2tVUQyAAAAABJRU5ErkJggg=" alt="">= _____
Answer: 3i

Answer: 3i

Question: The difference between (2 - 3i) and (-5 + 8i) is ____Â
Answer: (7 â€“ 11i)

Question: (-3 - 4 i) - (-1 -7i) is ____Â
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 = â€¦â€¦â€¦â€¦â€¦.
Â
Answer: 6+3i

Question: A function f (z) is _____ at c if
Answer: Continuous

Question: are complex numbers, then
Answer: 2

Question: Let <img src="@@PLUGINFILE@@/Picture34.png" alt="">are complex numbers, then <img src="
iVBORw0KGgoAAAANSUhEUgAAACEAAAAhCAIAAADYhlU4AAAAmElEQVRIie3UwQ
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uPS5ZsxzxTE3snO+xj24RTYPqxzBvIsdMhw52xtLIZmvCQT+uk/
MYwwjtQNdXomOn8WgmgAAAAASUVORK5CYIIA" alt="">=
_____
Answer:

Answer:

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

Question: If we have a function takes on different values as increases by then the point 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 Â-____
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 <img src="@@PLUGINFILE@@/Picture26.png" alt="">are complex numbers, then <img src="
iVBORw0KGgoAAAANSUhEUgAAACIAAAAcCAIAAACLVfpIAAAAl0lEQVRIie3U2w2AI
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YdYyyt1Au6+t/mjG/YU4YGosBI4P8igAAAABJRU5ErkJggg=" alt=""
>=_____
Answer: 6(1+i)

Question: (4 - 3i) + (-2 -7i) = _____
Answer: (2 â€“ 10i)

Answer: 2-10i

Question: The _____ measures the distance between two complex numbersÂ
Answer: absolute value

Answer: modulus

Question:
Answer: 2i Â

Question:
Answer: 0

Answer: zero

Question: Â
Answer:

Answer: infinity

Question:
Answer:

Answer: 0.2

Question: Â
Answer: 2

Answer: two

Question:
Answer:

Answer: 0.2

Question: A function f (z) is complex _____ at c if <img src="
@@PLUGINFILE@@/Picture15.png" alt=""/>Â
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-valuedfunction
in the neighbourhood <img src="@@PLUGINFILE@@/Picture14.png" alt="">
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.Â
Answer: equal

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

Answer: branch line

Question: Evaluate <img src="@@PLUGINFILE@@/Picture13.png" alt="">= ----------
---

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

Question: If the derivative Æ’ ' of a function Æ’ has a simple pole at a point a, then Æ’ has a _____ point at a.
Answer: logarithmic branch

Question: Letbe an analytic function and if eitheror is constant, then is_____
Answer: constant

Question: Letbe an analytic function and if is constant is constant, then is _____
Answer: constant

Question:
Answer: 3

Question:
Answer: 4

Question:
Answer: 1

Question: For complex numbers obeys the associativity of addition property
Answer:

Question: The polar form of the complex number is given by â€¦â€¦â€¦â€¦.Â
Answer:

Question: The number x in the complex number x - iy is the same as â€¦â€¦..
Answer: Re (x + iy)

Question: The conjugate of the conjugate of a complex number is â€¦â€¦â€¦â€¦
Answer: the complex number

Question: The conjugate of is â€¦â€¦..
Answer:

Question: The numerical value of in complex analysis is â€¦â€¦â€¦..
Answer: -1

Question: <img src="@@PLUGINFILE@@/Picture103.png" alt=""> in complex analysis is equal toâ€¦â€¦â€¦..
Answer: 1

Question: in complex analysis is equal toâ€¦â€¦â€¦..
Answer:

Question: Two complex numbers <img src="@@PLUGINFILE@@/Picture96.png" alt=" "> are equal if
Answer:

Question: If is a complex number, then z is said to be â€¦â€¦â€¦â€¦ if y = 0
Answer: purely real

Question: The harmonic conjugate of the harmonic function is given by
Answer:

Question: In an Argand diagram, the purely imaginary numbers lie along the â€¦â€¦â€¦â€¦â€¦
Answer: y-axis

Question: The complex conjugate of the conjugate of the complex number is â€¦â€¦â€¦.
Answer:

Question: One of the following is a complex number
Answer: None of the options

Question: If = â€¦â€¦â€¦â€¦â€¦â€¦
Answer: 5

Question: |z| = â€¦â€¦ if
Answer: 4

Question: Find |z| if
Answer: 7

Question: The complex number has its polar form given by â€¦â€¦â€¦â€¦â€¦.
Answer:

Question: One of the following statements in 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 be a complex function, then is analytic in a domain D iff
Answer: v is a harmonic conjugate to u in D

Question: Let be a complex number , then the argument of z is
Answer:

Question: Let = â€¦â€¦â€¦â€¦â€¦
Answer:

Question: Let
Answer:

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

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 ifis 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:

Question: One of the following is not an analytic function
Answer: Absolute value function

Question: A function f is called â€¦â€¦. if it is differentiable for all points in an open disk centred at 
Answer: holomorphic

Question: has â€¦â€¦.. 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
and , then
Answer:

fh13skBVFqjKAlXZADI2um8HwDs5AAAAAElFTkSuQmCCAA==" alt="">

Question: The Fundamental Theorem of Algebra states that
Answer: Every non-constant polynomial with coefficients in the set of complex numbers, C (or set of real numbers, R) has a root in C

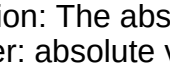
Question: If
Answer: .

Question: Simplify
Answer:

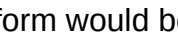
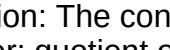
Question: = â€¦â€¦â€¦â€¦â€¦â€¦.
Answer: 4

Question: Evaluate <img src="@@PLUGINFILE@@/Picture16.png" alt="">using Eulerâ€™s equation
Answer: -1

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

Question: Let <img src="@@PLUGINFILE@@/Picture11.png" alt=""> , evaluate <img src="
iVBORw0KGgoAAAANSUhEUgAAAC8AAAAsCAIAAAB60XZVAAAA4klEQVRYhe3U0
Q3DIAwE0JuLgTwP03gZD9N+FAIxXFRQpEaV7zNE9sOQ4PWk4NeAU0LDExqe0PCE
hic0PKHhCQ1PaHhCwxMantDwhIbn7zWWEwAAKdumRkX0JklFqGC1Jo4iN2hcf5XV6
aANts62f1CKW06AaF2Zw1XOZ2M5rWtKob5xKaICpGxNd2BnXVTgs3xxBo1r0MHqC3
4GfhMXb+1q6k7nmpHum29hJprPwYi+LmYzaNxo9iwTzXgmZvbVbPqbt/
mBohUr5zLcxiTSfmfH6rB3vrKseUhCwxMantDwvAHElCEkZYdCfwAAAABJRU5ErkJgg
gA=" alt="">
Answer: 

Question: The absolute value of the conjugate of a complex number is the â€¦â€¦.
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 â€¦â€¦..
Answer: infinitely differentiable