MTH210

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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 – 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 – i)

Question: The sum of - 3i and (5 - 6i) is \_\_\_\_

Answer: (5 – 9i)

Answer: 5-9i

Question: <img 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7OBjoiI9pPSEQBICjwjJiIiKq73qHAIAJqSUJfdUf72+iIiYmqXXg4O1l0xEhERlTzvj/6nPvOSChUq/+t8KeWdx3aFX1JiYBcLiM8bnRv3UqHdzCkT+Cw8HGUrzCTypHYGcM1u2geFTbzCw8ONZUWMveMBoCnakU9QwPVBeHjAWYH90k+rRrH1D/k2fyVh5BkeHlc3MF9035JTRMY3PPy+qxH/4RNl06Tqe5abv/ne8Mqj8PCbovsZuMSUroaGh4fY8yGkH5au8aIuKlSoUPlT+YLRhp4UFyGV4x0AAP2OMnR85rfnAAA6TgpznXnd1JnlQ0srmtQNADCQdpmNXTm1tTlQnUfdjfyawpFrCiyHz0d114Tz7WL0LSI/ObTRgme/ggf5Fegt56TYzO5mlz2y/WXP4fR+AAA/zUN7JW2HAAAwZ0V5zEPKvlztqFChQuU38wWVtzn6PJ/8sdoZAOixV+M3DS0FACB0XVBlM/RPeuGkwKR9g/JQ3NlyHUmhyxERdtICNzMpT2cvvWvBpetSmRUmIqmW1kUCgPnqMAQTZ9hCuDjNQ0Po7M0MlJUI0qWXBADzdyzEJCzvkQCA0O0iL2ka9Jneq0aFChUqn5U/Snk1BUzvlQIA4DvtVRh0PWOeOql8t2U3Gwc7Ozs7BzvTT3u4r9zy1RBnu55Deelm7TMbXkOHsvQQETmNjC4AAELJnX2/rNvHxMXOzs7Ozrl/509MtsHo4FOyyi4YIgDMoUyFRcxu4wAA3+koJ2EeXPTlakeFChUqv5k/Snk1+E3CSgDIyntAz+vVfTs9Xj231Iz09PT09Ex0YcXb/qYEbSH2m9nkN/NCzdNzPAaOZRmhIjLq6Z0kAJgrCGZjk77+ivybjJz8wtqekXyUmaS8UzcBqMpLhQqVvwpfUnlf2fPJm7zFwfvKq8SgEZCWe8daRsOL8uInYrW7qXVKQ6mtGKd+QDEAAMy/uojkPxbQmPdASFqNrLzE4TRdHomwioU3gQddvHI3IzfESkrBmaq8VKhQ+QvxBZV3JMdfkFM7bZhIgh5bNR7j0GIAAHynrfweOZ98XGe2Itu2cxENBAIB7avFxmnydno201WWVsygaopA6E1W3rHPJrJhrO4er7hKWif5/aWzjy25WNQvdRAIhK5kVXoGd3RL6YOT4nIOZOUNPCYgaIIiK+8laVFqnJcKFSr/m3xB5SWNF+gf2rZbxOhNR/fVo8Kmdyk273kVeuTVDAA8JsWD+SA9ExMTvZBx8tshAJgfb/Gzkt57kInpELvZzdTROdJocTD/YbUMivLCzHDZBT0BeiYmJnquU36pWAKU3DGXUqTYvMFmomLmd8jK6yQvZXGbavNSoULlf5Ev+sQc/GBHY019y8QcfmwAM4CdAwAg4Yd7O3pGyJsacG0N1ZWVlXXt715AiRvrqa6srKxuGJkHACDMjHf39M3g3yU6NdRZXVlZWdU4igMAmB0fwPSO4AEASOMDGMwAlgQAJPxID2ZwfPZL1o4KFSpUfiM0E5+Lyel5wj/r5ZlUqFCh8tugOfC54FN9Uj72Z1eHChUqVP4C0LR9Ljow2FnqkxKoUKFC5dehPhmdChUqVP5o/h+yHer0wUhtQQAAAABJRU5ErkJgggA=" alt="">

Answer: De Moivre’s

Answer: D’Moivre’s

Question: <img src="@@PLUGINFILE@@/Picture41.png" alt=""> are complex numbers, then <img src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAACMAAAAYCAIAAAD/BtNgAAAAmklEQVRIie2UwRHFIAhEqcuCqIdqthmK+Tk4mcgXlIPJIXFPGWfhRVml31OiTdqkTXoFSaVQoyLaV2U8U5ICZxmYGF5RxmMFpvD0Mi2SmCqftBzjk7oWdSpmrfOAhxNzTs+0AM5PldIsdx4VgfsD0Z7+ItVUXaTYU1FhDpP3yexpIEgY+KUk8MC0jjTLYoo0CZYdXoT7xgt7lw57Ljo2tVUQyAAAAABJRU5ErkJgggA=" alt="">= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_<br>

Answer: 2(cos4+isin4)

Question: Let <img src="@@PLUGINFILE@@/Picture39.png" alt=""> are complex numbers, then <img src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAACMAAAAYCAIAAAD/BtNgAAAAmklEQVRIie2UwRHFIAhEqcuCqIdqthmK+Tk4mcgXlIPJIXFPGWfhRVml31OiTdqkTXoFSaVQoyLaV2U8U5ICZxmYGF5RxmMFpvD0Mi2SmCqftBzjk7oWdSpmrfOAhxNzTs+0AM5PldIsdx4VgfsD0Z7+ItVUXaTYU1FhDpP3yexpIEgY+KUk8MC0jjTLYoo0CZYdXoT7xgt7lw57Ljo2tVUQyAAAAABJRU5ErkJgggA=" alt="">= \_\_\_\_\_\_\_\_\_\_<br>

Answer: 3i

Answer: 3i

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

Answer: (7 – 11i)

Question: (-3 - 4 i) - (-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 <img src="@@PLUGINFILE@@/Picture37.png" alt=""/>= …………….

Answer: 6+3i

Question: A function f (z) is \_\_\_\_\_\_\_\_\_ at c if <img src="@@PLUGINFILE@@/Picture36.png" alt=""/>

Answer: Continuous

Question: <img src="@@PLUGINFILE@@/Picture35.png" alt=""/> are complex numbers, then

Answer: 2

Question: Let <img src="@@PLUGINFILE@@/Picture34.png" alt="">are complex numbers, then <img src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAACEAAAAhCAIAAADYhlU4AAAAmElEQVRIie3UwQ3AIAgFUOZyIOdhmr8Mw7QHY9SCaBN7aeDUmE9eVCxd3xeFEUYYYYQxM4QTdZVYdMtOxjEEqA3IlGF17GTcfbxo3gRs4yxgGKq5nP6wpjLI7s3QI9uagfopnLpllRFmmLQ2HuPS5ZsxzxTE3snO+xj24RTYPqxzBvIsdMhw52xtLIZmvCQT+uk/MYwwjtQNdXomOn8WgmgAAAAASUVORK5CYIIA" alt="">= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_<br>&nbsp;

Answer:

Answer:

Question: The set of all numbers that are rational is \_\_\_\_

Answer: finite

Question: If we have a function <img src="@@PLUGINFILE@@/Picture30.png" alt=""/> takes on different values as increases by <img src="@@PLUGINFILE@@/Picture29.png" alt=""/> then the point <img src="@@PLUGINFILE@@/Picture28.png" alt=""/> 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 ­\_\_\_\_

Answer: infinitely differentiable

Question: A function f is \_\_\_\_\_ if it is differentiable for all points in an open disk centred at <img src="@@PLUGINFILE@@/Picture27.png" alt=""/>

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="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAACIAAAAcCAIAAACLVfpIAAAAl0lEQVRIie3U2w2AIAwFUOZiIObpNHeZDqMfhMij5WFQP2y/DLnNEai645VyxhhjjDFiMXmXlSe+l0kMZAVIPQguiKGZzIBJNeyfzPSYXUaPafrjTRRrTQZBuSWZKfqB9Mjks+Umw0QQdZGpBihruRg9E516P0vfTbGbToHqU3uAQWhDuxll8hYYdYyyt1Au6+t/mjG/YU4YGosBI4P8igAAAABJRU5ErkJgggA=" alt="">=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: 6(1+i)

Question: (4 - 3i) + (-2 -7i) = \_\_\_\_\_\_

Answer: (2 – 10i)

Answer: 2-10i

Question: The \_\_\_\_\_\_ measures the distance between two complex numbers

Answer: absolute value

Answer: modulus

Question: <img src="@@PLUGINFILE@@/Picture22.png" alt=""/>

Answer: 2i

Question: <img src="@@PLUGINFILE@@/Picture21.png" alt=""/>

Answer: 0

Answer: zero

Question: <img src="@@PLUGINFILE@@/Picture20.png" alt=""/>

Answer:

Answer: infinity

Question: <img src="@@PLUGINFILE@@/Picture19.png" alt=""/>

Answer:

Answer: 0.2

Question: <img src="@@PLUGINFILE@@/Picture17.png" alt=""/>

Answer: 2

Answer: two

Question: <img src="@@PLUGINFILE@@/Picture16.png" alt=""/>

Answer:

Answer: 0.2

Question: A function f (z) is complex \_\_\_\_\_\_\_\_\_ at c if <img src="@@PLUGINFILE@@/Picture15.png" alt=""/>

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.

Answer: equal

Question: A line which connects two and only two branch points is called a \_\_\_\_\_\_\_

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 <em>ƒ </em>' of a function <em>ƒ </em>has a simple pole at a point <em>a</em>, then <em>ƒ </em>has a \_\_\_\_\_\_\_\_\_\_\_ point at <em>a.</em>

Answer: logarithmic branch

Question: Let<img src="@@PLUGINFILE@@/Picture11.png" alt=""/>be an analytic function and if either<img src="@@PLUGINFILE@@/Picture10.png" alt=""/>or <img src="@@PLUGINFILE@@/Picture9.png" alt=""/> is constant, then <img src="@@PLUGINFILE@@/Picture8.png" alt=""/> is\_\_\_\_\_\_\_

Answer: constant

Question: Let<img src="@@PLUGINFILE@@/Picture7.png" alt=""/>be an analytic function and if <img src="@@PLUGINFILE@@/Picture6.png" alt=""/> is constant <img src="@@PLUGINFILE@@/Picture5.png" alt=""/> is constant, then <img src="@@PLUGINFILE@@/Picture4.png" alt=""/> is \_\_\_\_\_\_\_

Answer: constant

Question: <img src="@@PLUGINFILE@@/Picture3.png" alt=""/>

Answer: 3

Question: <img src="@@PLUGINFILE@@/Picture2.png" alt=""/>

Answer: 4

Question: <img src="@@PLUGINFILE@@/Picture1.png" alt=""/>

Answer: 1

Question: For complex numbers <img src="@@PLUGINFILE@@/Picture119.png" alt=""/> obeys the associativity of addition property

Answer: <img src="@@PLUGINFILE@@/Picture115.png" alt=""/>

Question: The polar form of the complex number <img src="@@PLUGINFILE@@/Picture114.png" alt=""/> is given by …………….

Answer: <img src="@@PLUGINFILE@@/Picture113.png" alt=""/>

Question: The number x in the complex number x - iy is the same as ……..

Answer: Re (x + iy )

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

Answer: the complex number

Question: The conjugate of <img src="@@PLUGINFILE@@/Picture110.png" alt=""/> is ……..

Answer: <img src="@@PLUGINFILE@@/Picture108.png" alt=""/>

Question: The numerical value of <img src="@@PLUGINFILE@@/Picture105.png" alt=""/> in complex analysis is ………..

Answer: -1

Question: <img src="@@PLUGINFILE@@/Picture103.png" alt=""> in complex analysis is equal to………..&nbsp;

Answer: 1

Question: <img src="@@PLUGINFILE@@/Picture100.png" alt=""/> in complex analysis is equal to………..

Answer: <img src="@@PLUGINFILE@@/Picture98.png" alt=""/>

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

Answer: <img src="@@PLUGINFILE@@/Picture94.png" alt=""/>

Question: If <img src="@@PLUGINFILE@@/Picture91.png" alt=""/> is a complex number, then z is said to be ………… if y = 0

Answer: purely real

Question: The harmonic conjugate of the harmonic function <img src="@@PLUGINFILE@@/Picture90.png" alt=""/> is given by

Answer: <img src="@@PLUGINFILE@@/Picture86.png" alt=""/>

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

Answer: y-axis

Question: The complex conjugate of the conjugate of the complex number <img src="@@PLUGINFILE@@/Picture85.png" alt=""/> is ……….

Answer: <img src="@@PLUGINFILE@@/Picture82.png" alt=""/>

Question: One of the following is a complex number

Answer: None of the options

Question: If <img src="@@PLUGINFILE@@/Picture78.png" alt=""/>= ………………

Answer: 5

Question: |z| = …… if <img src="@@PLUGINFILE@@/Picture76.png" alt=""/>

Answer: 4

Question: Find |z| if <img src="@@PLUGINFILE@@/Picture75.png" alt=""/>

Answer: 7

Question: The complex number <img src="@@PLUGINFILE@@/Picture73.png" alt=""/> has its polar form given by …………….

Answer: <img src="@@PLUGINFILE@@/Picture69.png" alt=""/>

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 <img src="@@PLUGINFILE@@/Picture68.png" alt=""/> be a complex function, then <img src="@@PLUGINFILE@@/Picture67.png" alt=""/> is analytic in a domain D iff

Answer: v is a harmonic conjugate to u in D

Question: Let <img src="@@PLUGINFILE@@/Picture66.png" alt=""/> be a complex number , then the argument of z is

Answer: <img src="@@PLUGINFILE@@/Picture64.png" alt=""/>

Question: Let <img src="@@PLUGINFILE@@/Picture61.png" alt=""/> = ………………

Answer: <img src="@@PLUGINFILE@@/Picture57.png" alt=""/>

Question: Let <img src="@@PLUGINFILE@@/Picture56.png" alt=""/>

Answer: <img src="@@PLUGINFILE@@/Picture55.png" alt=""/>

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 <img src="@@PLUGINFILE@@/Picture51.png" alt=""/> is given by

Answer: <img src="@@PLUGINFILE@@/Picture47.png" alt=""/>

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 <img src="@@PLUGINFILE@@/Picture46.png" alt=""/>

Answer: f is a compact function

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

Answer: <img src="@@PLUGINFILE@@/Picture42.png" alt=""/>

Question: One of the following is not an analytic function

Answer: Absolute value function

Question: A function f is called ……. if it is differentiable for all points in an open disk centred at <img src="@@PLUGINFILE@@/Picture38.png" alt="">

Answer: holomorphic

Question: <img src="@@PLUGINFILE@@/Picture37.png" alt=""/> has …….. real solutions

Answer: no

Question: One of these expresses commutative law

Answer: <img src="@@PLUGINFILE@@/Picture33.png" alt=""/>

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

Answer: The imaginary part of <img src="@@PLUGINFILE@@/Picture31.png" alt=""/>

Question: If <img src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAOsAAAAaCAIAAADZpjw+AAADHUlEQVR4nO1a27GFIAykLgpKPamGZijm3A9RAyZBeV2dyf6dOZos2SUg6n6G1yEAhFmhEePokPPYnjlk2m52bsNDRPQzHRHR+4EmnsyW5hFom4PfhQAj/cVjnOtWsD0g0DYHvwmrOtoY561ie4ClbQ5+EQav8JMTLWOrZ/yGgyN655bN9wBusTQbFlqiNRURYr2B+ZwvcfDyBUnDfzm4Oe+N6kUEGjqi53PdF6KnSq1yc7TNwVf8k4Mj+sZ1plY9RvgA/KJ2W4h2tk+ylGBoHw6O6B3BIAkDZNG2n0xsZUgpBIQyWN1p6QZyU0TvAPeh0ruPaz2iGndOoX6cOgOqR2tAozc4+BSCDfBEHTlLqi6EPeK1IoKDYwjxvEqfILQoGRRWENRJq09K8m82hGJpZGiW5Y7ojyJz/++jk335pFAk4I1yCabqrh7rpbYeLAnBRlXUUbNsm90ADuBCXOvB5yXjl3Pqm4LOHWnpeLMF8fYLpkN/evtpilxicY9Ykh9cKMVUPdXjm2GWrEUIlq2qzs0sEb0HEBxec/AU+yZWemRtUuYPoOcYImKNLF3xDwfviVhbpxQVB0+b52zU3upxo2npwZkQPKmb6tS2PWL5VQdfVNnkZzI930UAgC6CMqTiBGUfg76D2OmnoJlZLw4uLVtxMGffchPI/NfYLPurJ+ycH59FXIWQW3tFHX23rW4wpLOI7L4QyJrd3Wu2Fyn78IWh1YZ0rkjbILD+UqnY5rqUnnNwNu/1fTBbqL3fdLZmrq11Vi+FvFwgHuY+E0LYRlTVkbPoJZTOg4unaxKiy8H0sfL4JQxNHVJJSe72XH7n0oNQkpJz8I90SuUsQi7UEaTraIIKNLJ63INctxCsnW6qI2ap9ICSdkTv9PPgVx3TJpwrxPvQ++3i97+LmKoOQzvARxyc5nvXMfp0jPhQtrq9H4FhX/QmtovUYWgH+JCDlVX0DRh2PDHdw0O/SI8IGJeoI9HWHKw9YBsILod23eGm9Y3x54BLupxC+yXfRRgMjTAHG74Nc7Dh2zAHG74Nc7Dh2zAHG74Nc7Dh2/gD5Kq94m1gB7MAAAAASUVORK5CYIIA" alt="">and , then <img src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAC4AAAAkCAIAAAB5QJ8GAAAAt0lEQVRYhe2VwRGEIAxFUxcFUU+q+c1QDHtQZxV/VsTsyCHv6JjvIySj1GmQtwW+hAojVBihwggVRqgwQoURKoxQYTQqRZPsSFpcvtIVe1QpwPYSsmS4ePTG8gvq9EAWjlH8O5aoePbjTmyrwgrWwz8ZnFPsMj2HZ2IWAFiLFJbkgMcWW2vRZKg0U86aM9IXO9ZWuQTqtNpPVZC9Z3lM5S9LdV9lf9mOPue1nPcf9CahwggVxkQqHzxrrEKrtH/2AAAAAElFTkSuQmCCAA==" alt="">

Answer: <img src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAADAAAAAWCAIAAAAJlYj7AAAAuklEQVRIie3V2w3DMAgFUOZioDsP07AMwzQfcaMUYXAc9SHV9zcyHGGS0OPHQt8G+CxQlbeATJgIOnU2BZlArNNxst8NkAkTx57PgxR0JOqcgNpRaLu5VkDRKTUG2iv05lNN6PTUhFlMQUBWbwAUeM5je4mzOQ9w6XpjULY/rmf07DiqoLG5FKDKk4Gc5/LuRyATJmjRNVlqqIrYnCcEtWVJZtQH7WefL9bEt+E/fh13skBVFqjKAlXZADI2um8HwDs5AAAAAElFTkSuQmCCAA==" alt=""><br>

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 <img src="@@PLUGINFILE@@/Picture28.png" alt=""/>

Answer: <img src="@@PLUGINFILE@@/Picture25.png" alt=""/>.

Question: Simplify <img src="@@PLUGINFILE@@/Picture23.png" alt=""/>

Answer: <img src="@@PLUGINFILE@@/Picture21.png" alt=""/>

Question: <img src="@@PLUGINFILE@@/Picture18.png" alt=""/>= ……………….

Answer: 4

Question: Evaluate <img src="@@PLUGINFILE@@/Picture16.png" alt="">using Euler’s equation

Answer: -1

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

Answer: <img src="@@PLUGINFILE@@/Picture15.png" alt=""/>

Question: Let <img src="@@PLUGINFILE@@/Picture11.png" alt=""> , evaluate <img src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAC8AAAAsCAIAAAB60XZVAAAA4klEQVRYhe3U0Q3DIAwE0JuLgTwP03gZD9N+FAIxXFRQpEaV7zNE9sOQ4PWk4NeAU0LDExqe0PCEhic0PKHhCQ1PaHhCwxMantDwhIbn7zWWEwAAKdumRkX0JklFqGC1Jo4iN2hcf5XV6aANts62f1CKW06AaF2Zw1XOZ2M5rWtKob5xKaICpGxNd2BnXVTgs3xxBo1r0MHqC34GfhMXb+1q6k7nmpHum29hJprPwYi+LmYzaNxo9iwTzXgmZvbVbPqbt/mBohUr5zLcxiTSfmfH6rB3vrKseUhCwxMantDwvAHElCEkZYdCfwAAAABJRU5ErkJgggA=" alt="">

Answer: <img src="@@PLUGINFILE@@/Picture8.png" alt=""/>

Question: The absolute value of the conjugate of a complex number is the …….

Answer: absolute value of the complex number

Question: Given that <img src="@@PLUGINFILE@@/Picture7.png" alt=""/>then z in polar form would be

Answer: <img src="@@PLUGINFILE@@/Picture6.png" alt=""/>

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