Answer on Question #58284 – Math – Complex Analysis

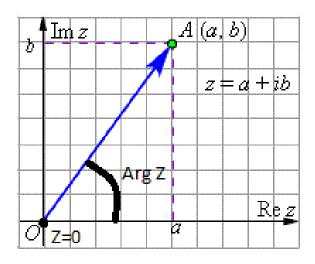
Question

If z = 0 and |z| = 0, then the argument is ...

Solution

If z = 0, then x=0, y=0 and the argument is not defined, because the argument is the angle between the x-axis and the vector through points (0,0), (a, b) (z=a+ib).

If |z| = 0, then $\sqrt{x^2 + y^2} = 0$, that is, we have a point, where x = 0 and y = 0. The angle between this point and a straight line OX is not defined.



Answer: not defined.

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