## 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 $(0,0),(a, b)(z=a+i b)$.

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.

