

## Re: 1+i > i

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mina\_world wrote:

> *hello.....doctor~*  
>  
>  
>  $(1+i)-i = 1 > 0$   
>  
>  $\Rightarrow (1+i) > i$   
>  
> -----  
> *um.....of course, impossible ??*  
>  
> *i know that complex numbers can't compare about size.*  
>  
> *but this process is very plausible as paradox.*  
>  
> *i want to know the basic cause.*  
>  
> *thank you very much your advice.*

You cannot linearly order the complex numbers but you can compare their absolute magnitudes. Hence  $|1+i| > |i| = 1$ . In fact  $|1+i| = \sqrt{2}$ . Locate the numbers on the complex plane to see why.

Bob Kolker