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20) Demostrar que:

$$\left| \frac{\operatorname{Re}(z) + \operatorname{Im}(z)}{\sqrt{2}} \right| \leq \|z\| \leq \|\operatorname{Re}(z)\| + \|\operatorname{Im}(z)\|$$

Solución:

Sea  $z = x + iy \rightarrow \|z\| = \sqrt{x^2 + y^2}$   
 $\operatorname{Re}(z) = x, \operatorname{Im}(z) = y$

Debemos probar:

$$\left| \frac{x+y}{\sqrt{2}} \right| \leq \sqrt{x^2 + y^2} \leq |x| + |y|$$

En efecto:

S.g.

$$\begin{aligned} (x-y)^2 &\geq 0, \forall x, y \in \mathbb{R} \\ x^2 + y^2 &\geq 2xy \\ x^2 + y^2 + x^2 + y^2 &\geq x^2 + 2xy + y^2 \\ 2(x^2 + y^2) &\geq (x+y)^2 \\ x^2 + y^2 &\geq \left(\frac{x+y}{\sqrt{2}}\right)^2 \end{aligned}$$

ie.

$$\begin{aligned} \left| \frac{x+y}{\sqrt{2}} \right|^2 &\leq x^2 + y^2 \\ \left| \frac{x+y}{\sqrt{2}} \right| &\leq \sqrt{x^2 + y^2} \dots (I) \end{aligned}$$

$$\bullet \sqrt{x^2 + y^2} \leq |x| + |y|$$

En efecto:

S.g.  $2|x||y| \geq 0, \forall x, y \in \mathbb{R}$

$$\begin{aligned} x^2 + y^2 + 2|x||y| &\geq x^2 + y^2 \\ |x|^2 + |y|^2 + 2|x||y| &\geq x^2 + y^2 \\ (|x| + |y|)^2 &\geq x^2 + y^2 \\ |x| + |y| &\geq \sqrt{x^2 + y^2} \dots (II) \end{aligned}$$

de (I) y (II):

$$\left| \frac{x+y}{\sqrt{2}} \right| \leq \sqrt{x^2 + y^2} \leq |x| + |y|$$

ie.

$$\left| \frac{\operatorname{Re}(z) + \operatorname{Im}(z)}{\sqrt{2}} \right| \leq \|z\| \leq \|\operatorname{Re}(z)\| + \|\operatorname{Im}(z)\|$$

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