

Projeto Mathematical Ramblings

<https://sites.google.com/site/mathematicalramblings/>

Em $\mathbb{U} = \mathbb{C}$, calcule $\sqrt[4]{16}$.

Resolução:

$$\sqrt[4]{16} = \sqrt[4]{16}[\cos(\frac{2k\pi}{4}) + \sin(\frac{2k\pi}{4})], \quad k \in \mathbb{Z}$$

$$z = \sqrt[4]{16}$$

$$z = 2 \vee z = 2i \vee z = -2 \vee z = -2i$$