

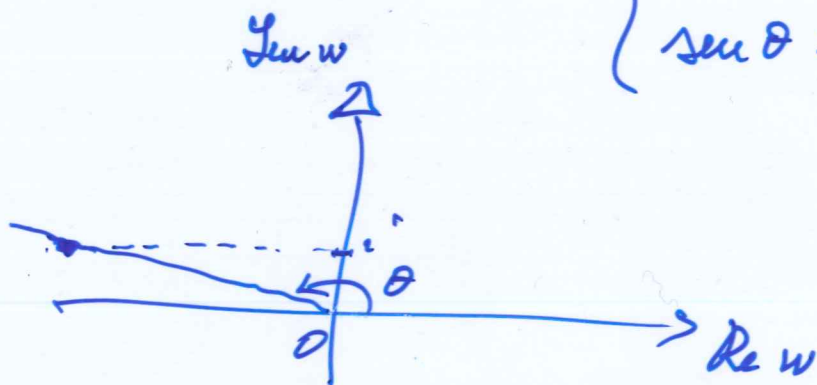
ARG 14. 14.3 (c)

$$\begin{aligned}w &= \frac{(\sqrt{3} + i\sqrt{2})^3}{\sqrt{2} - i\sqrt{3}} = \frac{(\sqrt{3} + i\sqrt{2})^2 (\sqrt{2} + i\sqrt{3})}{(\sqrt{2} - i\sqrt{3})(\sqrt{2} + i\sqrt{3})} = \\&= \frac{(\sqrt{3} + i\sqrt{2})^2 (\cancel{\sqrt{6}} - \cancel{\sqrt{6}} + \sqrt{6}i)}{5} = \\&= (\sqrt{3} + i\sqrt{2})^2 \cdot i = (3 - 2 + 2\sqrt{6}i)i = \\&= -2\sqrt{6} + i\end{aligned}$$

mod e arg?

$$|w| = \sqrt{24 + 1} = 5$$

$$\arg w = \theta \quad \begin{cases} \cos \theta = \frac{-2\sqrt{6}}{5} \\ \sin \theta = \frac{1}{5} \end{cases}$$



$w$  è nel  
2° quadrante.

per calcolare  $\theta$ , cerco  $\arccos\left(\frac{-2\sqrt{6}}{5}\right)$

oppure  $\pi - \arcsin\frac{1}{5}$