

History of Complex NumbersSolution of cubic equation  $x^3 + b x^2 + c x + d = 0$ A Solution of  $y^3 + m y = n$ 

Guess a solution:  $y = w \left( \sqrt[3]{u + \sqrt{h}} + \sqrt[3]{u - \sqrt{h}} \right)$

Where  $w$  are the roots of  $w^3 = 1$ :  $w_{1,2,3} = 1, \frac{1-i\sqrt{3}}{2}, \frac{1+i\sqrt{3}}{2}$

$$y^3 = u + \sqrt{h} + 3 \sqrt[3]{u^2 - h} \left( \sqrt[3]{u + \sqrt{h}} + \sqrt[3]{u - \sqrt{h}} \right) + u - \sqrt{h} = 3 \sqrt[3]{u^2 - h} z + 2u$$

Therefore: 
$$\begin{cases} 2u = n \\ 3 \sqrt[3]{u^2 - h} = -m \end{cases} \rightarrow \begin{cases} u = \frac{n}{2} \\ h = \left(\frac{n}{2}\right)^2 + \left(\frac{m}{3}\right)^3 \end{cases}$$

$$y_{1,2,3} = w_{1,2,3} \left( \sqrt[3]{\frac{n}{2} + \sqrt{\left(\frac{n}{2}\right)^2 + \left(\frac{m}{3}\right)^3}} + \sqrt[3]{\frac{n}{2} - \sqrt{\left(\frac{n}{2}\right)^2 + \left(\frac{m}{3}\right)^3}} \right)$$

# Elementary Complex Variables

**Mark Steyvers**



## **Elementary Complex Variables:**

## Unveiling the Power of Verbal Art: An Mental Sojourn through **Elementary Complex Variables**

In some sort of inundated with monitors and the cacophony of quick interaction, the profound energy and mental resonance of verbal beauty often fade into obscurity, eclipsed by the regular barrage of sound and distractions. Yet, located within the lyrical pages of **Elementary Complex Variables**, a fascinating function of literary splendor that impulses with natural feelings, lies an wonderful trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that exciting opus instructions readers on a psychological odyssey, lightly revealing the latent potential and profound influence embedded within the complex internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is key subjects, dissect its charming publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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