

2-27 Group: $\{\mathbb{C}, \cdot\}$

Using complex exponential notation, $c_1 = m_1 e^{j\theta_1}$, $c_2 = m_2 e^{j\theta_2}$, $c_3 = m_3 e^{j\theta_3}$.

1. Group is closed under group operation.

For all $c_1, c_2 \in \mathbb{C}$,

$$\begin{aligned} c_1 \cdot c_2 &= m_1 e^{j\theta_1} m_2 e^{j\theta_2} \\ &= m_1 m_2 e^{j(\theta_1 + \theta_2)} = m_3 e^{j\theta_3} \end{aligned}$$

where $m_3 = m_1 m_2$ and $\theta_3 = \theta_1 + \theta_2$.

2. Associativity

For all $c_1, c_2, c_3 \in \mathbb{C}$,

$$\begin{aligned} (c_1 c_2) c_3 &= (m_1 e^{j\theta_1} m_2 e^{j\theta_2}) m_3 e^{j\theta_3} \\ &= m_1 m_2 m_3 e^{j(\theta_1 + \theta_2 + \theta_3)} \\ &= m_1 e^{j\theta_1} (m_2 m_3 e^{j(\theta_2 + \theta_3)}) \\ &= c_1 (c_2 c_3). \end{aligned}$$

3. Identity element $I = 1 + j0 = 1e^{j0}$

For all $c \in \mathbb{C}$,

$$cI = c = Ic.$$

4. Inverse element

For all $c_1 \in \mathbb{C}$, let inverse $c_2 \in \mathbb{C}$ be defined as $c_2 = \frac{1}{m_1} e^{-j\theta_1}$.

$$c_1 c_2 = m_1 \frac{1}{m_1} e^{j\theta_1} e^{-j\theta_1} = c_2 c_1 = 1e^{j0} = I$$

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Gottlieb Heinrich Georg Jahr



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