

Lemma 1. *We have*

$$e^{i\pi} + 1 = 0 \tag{1}$$

Corollary 2. *For all $n \in \mathbb{N}$, we have $e^{2i\pi n} = 1$.*

Look at Lemma 1, (1) and Corollary 2.

Lemma 3. *We have*

$$e^{i\pi} + 1 = 0 \tag{2}$$

Corollary 4. *For all $n \in \mathbb{N}$, we have $e^{2i\pi n} = 1$.*

Look at Lemma 3, (2) and Corollary 4.

Lemma 5. *We have*

$$e^{i\pi} + 1 = 0 \tag{3}$$

Corollary 6. *For all $n \in \mathbb{N}$, we have $e^{2i\pi n} = 1$.*

Look at Lemma 5, (3) and Corollary 6.