Exercise B1. Let $f, g\colon \mathbb{S}^1 \to \mathbb{S}^1$. Prove that then

$$\deg(g \circ f) = \deg(g)\deg(f)$$

.

Exercise B2. Prove that periodic points of E_2 are dense in $\mathbb{S}^1$.

Exercise B2. Prove that homeomorphisms of the circle are not topologically mixing.