3
$$f: S^n \rightarrow S^1$$
 continua $\int f(-x) = -f(x)$, $n \ge 2$

Lemma 4.1.3
$$\Rightarrow \exists \widetilde{f}: S^n \rightarrow \mathbb{R} \text{ continua} \mid e \circ \widetilde{f} = f$$

Oss 4.1.4

Lemma 4.1.5
$$\Rightarrow \exists y_0 \in S^n \mid \widetilde{f}(y_0) = \widetilde{f}(-y_0)$$

$$e \circ f = f$$

$$\widetilde{f}(y_0) = \widetilde{f}(-y_0) = e(\widetilde{f}(y_0)) = e(\widetilde{f}(-y_0)) = f(-y_0) \neq -f(y_0) :: f(y_0) \in S^1$$

$$= > f(-x) \neq -f(x)$$