

Worksheet
1/13/2020

1. Let $V = \{u \in P_3(\mathbb{R}) : u(0) = u(1) = 0\}$. Find a basis and the dimension of V .

see Lecture 4

2. Let $f : \mathbb{C} \rightarrow \mathbb{C}$, $f(z) = \bar{z}$.

(a) Show that f is a linear map over \mathbb{R} .

see Lecture 5

(b) Show that f is not a linear map over \mathbb{C} .