# Physics 198 HW 1

## Keshav Balwant Deoskar April 27, 2024

### 1 Linear Algebra

Prove that  $V\cong V^*$  for finite dimensional vector spaces.

#### **Proof:**

We know that any two vector spaces of the same finite dimension are isomorphic, and we know that for a

### 2 Group Theory

### 3 Point-Set Topology