## Proof

- > By 3.91: V/nyullel= range 4
- we know that range e is a subspace

  [F which has dimension 1.
- Thus range & 's dimension is either I

  or O (since a dimension of subspace)

  count exceed that of the vector space)
- but this is not possible since e \$00 by problem hypothesis

Thus dim (range 4) =1