



Suppose $T = 0$

ie for any $v \in V$, $Tv = 0$

Given any $\varphi \in W'$

$$T'(\varphi) = \varphi \circ T$$

$$= \varphi \circ 0$$

$$= 0 \quad \text{by 3.11}$$

$$\Rightarrow T' = 0$$