Homework 15

$$V = Z^{2}5$$
 $\omega = IR^{3}$ 
 $Bapes$ 
 $V: Bv = S(1,2), (0,1)3$ 
 $w: Bw = E(1,0,0), (0,1,0), (0,0,1)3$ 

Linear Map Of T

 $T:V \rightarrow \omega$ 
 $T(v) = 2\omega_{1} + \omega_{3} = \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix}$ 
 $V_{1} = C_{1}, 2)$ 
 $V_{2} = C_{0}, 1$ 
 $V = \begin{bmatrix} 3 \\ 4 \end{bmatrix}$