Week 3 ubrksheet Solffans SER

V3 = 0-2/4 V1 + 3/4 2) [4 --- V2] [61] = 0. Yes

2) 1007 016 001 000

3) [1.0]

 $M \ge \gamma$ 

$$T(cu) = -(cu) = c - u = c T(u).$$

$$Ves it 3 linear.$$

$$T([3]) = T([3]) + 2[1]$$

$$= 2[1] + 2[1]$$

$$= 2[1] + 2[0] = [6].$$

3) T ([])= [] Préjection onto 421-plane H. 1) Set of the tarm prov StR. V/O. T(P+SV)= T(P)+ST(V) For any SER. If T(V)+0, thin is a line. If T(V)=0, it's just the point T(P). 2) No: in 63,  $T(\begin{bmatrix} 17\\ 0 \end{bmatrix}) = [3]$ . (in indept, but a [3]) lin dept. 3). (es: if Gv1 +---+ CtV== o Hen D=T(0)=T(C1/1+--+C+V4) =C1T(1/1)+--+C+T(1/4)

for Jacobs parallelogram, line segment, or point.

Triangle > triangle,

Like segment, a peint.

Citcle > ellipse, like segment, or points.