1.4.14 Correction $\vec{V}_1 = \begin{bmatrix} \vec{V}_1 & \vec{V}_2 \end{bmatrix}$ W= span & vi, viz 3 Two vectors in R3 create a plane if they are independent of each other and a line if they are dependent. we can check their dependence by solving & Civ, + Czvz =0 IF there exists a sot of scalars that make this system true that are not the trivial solution then the vectors are dependent. $\begin{bmatrix} 1-3 & 0 \\ 0 & 0 \end{bmatrix} \Rightarrow RREF \Rightarrow \begin{bmatrix} 0 & 1 & 0 \\ 0 & 1 & 0 \end{bmatrix} = 7x_0 = 0$ The vectors are intependent but only create a plane in 183. You need thee independent vectors to span 183. In conclusion, no. A vector not in W would be: 1 -2 10) => RREF => [0018] Inconsister