$$V = \begin{bmatrix} 5672C \\ b \end{bmatrix} \quad V = \begin{bmatrix} 5672C \\ b \end{bmatrix} \quad b = 1 \quad C = 0$$

$$V = \begin{bmatrix} 5 \\ 0 \end{bmatrix} \quad V = \begin{bmatrix} 5 \\ 0 \end{bmatrix} \quad V = \begin{bmatrix} 7 \\ 0 \end{bmatrix} \quad \text{of } \mathbb{R}^3 \text{ be cause it contains the o vector}$$

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$$V = \begin{bmatrix} 7 \\ 0 \end{bmatrix} \quad V = \begin{bmatrix} 7 \\ 0 \end{bmatrix} \quad V = \begin{bmatrix} 7 \\ 0 \end{bmatrix} \quad \text{of } \mathbb{R}^3 \quad \text{be cause it contains the o vector}$$

23. F because it is only true for some E. Also depends on Function.

25. T, For example [of represents on arrow in 3 dimensional space.

27. F, H is a subset of of V osseming it is otheret Rill. Then a subspace if contours of a closed under addition a scalar multiplication.

21. T, satisfies same conditions to be a subspace

31. T, Same conditions

4.2.7 Not subspace ototo \$2

4.31 Det to therefore LI, there for a basis for 13

4.3.11
$$z = -x - 2y$$
 $\begin{bmatrix} x \\ y \\ -x - 2y \end{bmatrix} \rightarrow x \begin{bmatrix} 1 \\ 1 \end{bmatrix} + 3 \begin{bmatrix} 1 \\ -2 \end{bmatrix}$ so $\left\{ \begin{bmatrix} 1 \\ 0 \\ -1 \end{bmatrix}, \begin{bmatrix} 0 \\ -2 \end{bmatrix} \right\}$