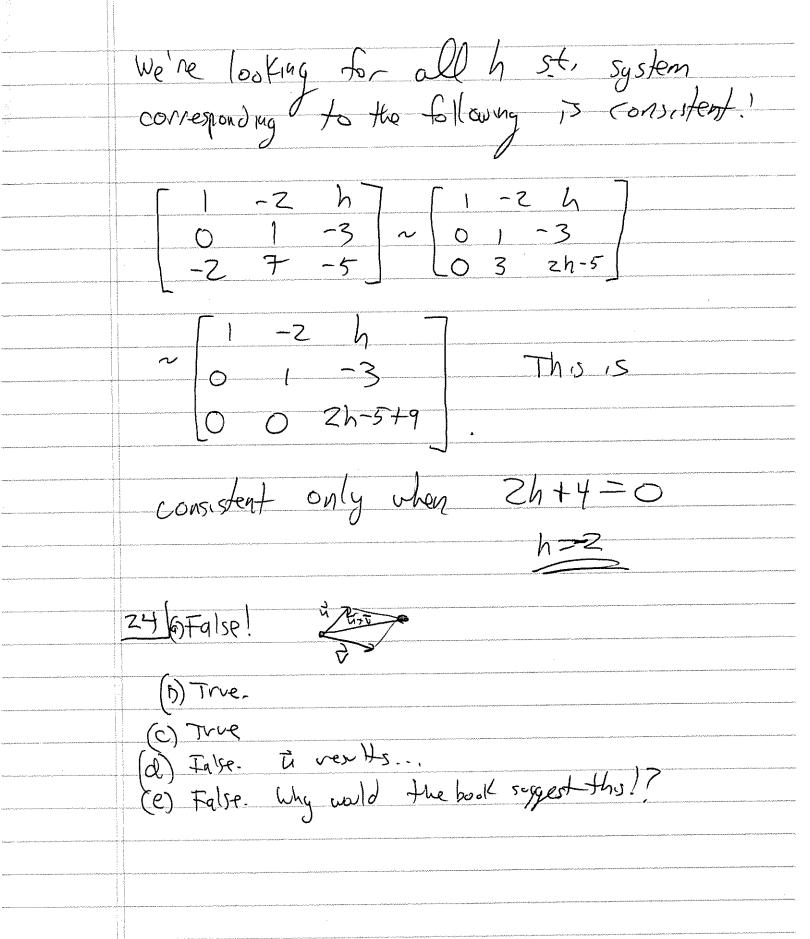


(a) System has no solon: I 6+h=0 and K-2 70. For example h=-6, K=3. (b) virgle solution f 6+h+0. For example h=4. (C) many solins S 6+h=0=K-2, so for h=-6 and k=2. 22 (a) True (Thm 1)
(b) False (Thm 2)
(c) False (see Thm 1) e) False. It might be monsisted.



Show $A\vec{x} = \vec{b}$ is not consistent for all \vec{b} .

Describe set of \vec{b} for which it is consulted.

Plan: I'll row reduce aymented matrix and see hat happens:

$$\begin{bmatrix}
1 - 2 - 1 & b_1 \\
-2 & 2 & 0 & b_2 \\
4 - 1 & 3 & b_3
\end{bmatrix}
\begin{bmatrix}
1 - 2 & -1 & b_1 \\
0 & -2 & -2 & 2b_1 + b_2 \\
0 & 7 & 7 & b_3 - 4b_1
\end{bmatrix}$$

$$\begin{bmatrix} 1 & -2 & -1 & b_1 \\ -2b_1 - b_2 \\ 2 & uhere \\ 0 & 0 & 0 & C \end{bmatrix}$$

$$C = -7\left(\frac{-2b_1-b_2}{2}\right) + b_3-4b_1$$

$$= \frac{14b_1 + 7b_2}{2} + b_3 - 4b_1 = 3b_1 + \frac{7}{2}b_2 + b_3.$$

System is consistent only when C=0.

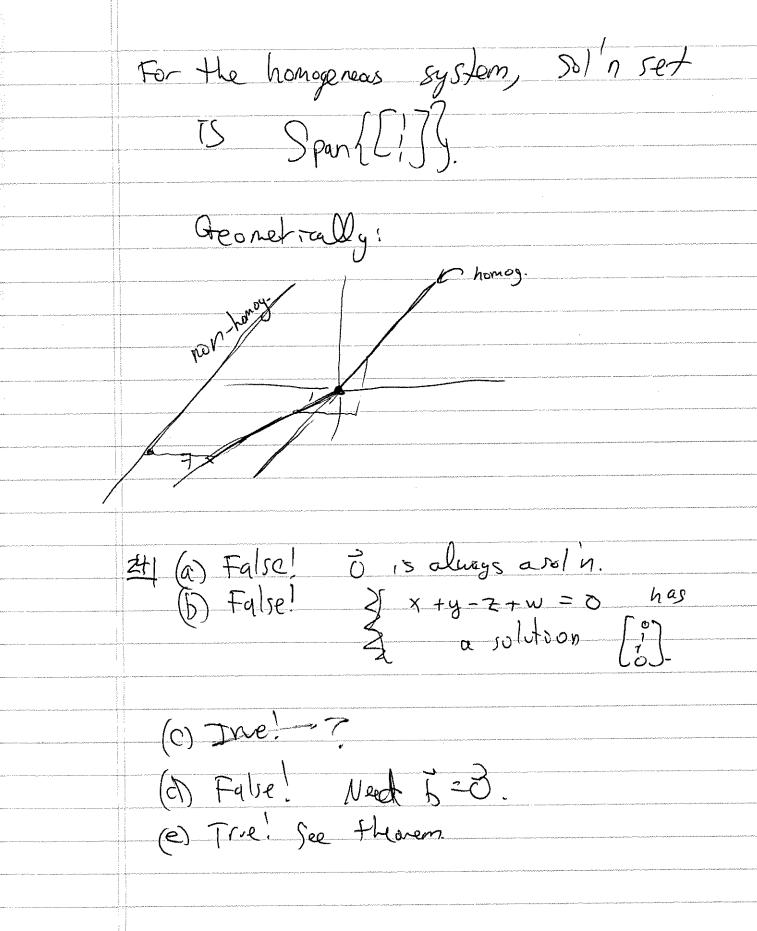
$$\begin{bmatrix} 26 \\ \ddot{\mathcal{U}} = \begin{bmatrix} 7 \\ 2 \\ 5 \end{bmatrix}, \ \dot{\vec{\mathcal{V}}} = \begin{bmatrix} 3 \\ 1 \\ 3 \end{bmatrix}, \ \dot{\vec{\mathcal{W}}} = \begin{bmatrix} 5 \\ 1 \\ 1 \end{bmatrix}.$$

Note that 22-37-2-3 (x) Use

this fact to find 7, 72 satisfying

$$\begin{bmatrix} 7 & 3 \\ 2 & 1 \\ 5 & 3 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 5 \\ 1 \\ 1 \end{bmatrix}.$$

The mater aguation is of the torm



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