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Chapter 4

Subspaces

4.1 Practice Problems

1. (a) Not a subspace. The vector $0 = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$ is not in the set.

(b) Let S be the set of vectors of the form $\begin{bmatrix} a \\ a-b \\ -2a \end{bmatrix}$. Letting $a = 0$ and $b = 0$, we see that $0 \in S$. Suppose u and v are in S, then $u = \begin{bmatrix} a_1 \\ a_1-b_1 \\ -2a_1 \end{bmatrix}$ and $v = \begin{bmatrix} a_2 \\ a_2-b_2 \\ -2a_2 \end{bmatrix}$. Thus $u+v = \begin{bmatrix} a_1 \\ a_1-b_1 \\ -2a_1 \end{bmatrix} + \begin{bmatrix} a_2 \\ a_2-b_2 \\ -2a_2 \end{bmatrix} = \begin{bmatrix} a_1+a_2 \\ (a_1+a_2)-(b_1+b_2) \\ -2(a_1+a_2) \end{bmatrix} \in S$. Let $r \in \mathbb{R}$ and $u \in S$, then $ru = r\begin{bmatrix} a_1 \\ a_1-b_1 \\ -2a_1 \end{bmatrix} = \begin{bmatrix} ra_1 \\ (ra_1)-(rb_1) \\ -2(ra_1) \end{bmatrix} \in S$, and we conclude that S is a subspace. *(Alternatively, we have $S = \text{span}\left(\begin{bmatrix} 1 \\ 1 \\ -2 \end{bmatrix}, \begin{bmatrix} 0 \\ -1 \\ 0 \end{bmatrix}\right)$, and thus S is a subspace.)*

2. (a) We row-reduce

$$\begin{bmatrix} 1 & 3 & -2 \\ 3 & 0 & -4 \end{bmatrix} \sim \begin{bmatrix} 1 & 3 & -2 \\ 0 & -9 & 2 \end{bmatrix}.$$

Thus, $Ax = 0$ has solutions of the form

$$x = s$$

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