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 $\begin{bmatrix} 0 \\ a - b \\ -2a \end{bmatrix}$. Letting $a = 0$ and $b = 0$, we see that

$0 \in S$. Suppose u and v are in S, then $u = \begin{bmatrix} 0 \\ a_1 - b_1 \\ -2a_1 \end{bmatrix}$ and $v = \begin{bmatrix} 0 \\ a_2 - b_2 \\ -2a_2 \end{bmatrix}$. Thus $u + v =$

$\begin{bmatrix} 0 \\ a_1 - b_1 \\ -2a_1 \end{bmatrix} + \begin{bmatrix} 0 \\ a_2 - b_2 \\ -2a_2 \end{bmatrix} = \begin{bmatrix} 0 \\ (a_1 + a_2) - (b_1 + b_2) \\ -2(a_1 + a_2) \end{bmatrix} \in S$. Let $r \in R$ and $u \in S$, then $ru =$

$r \begin{bmatrix} 0 \\ a_1 - b_1 \\ -2a_1 \end{bmatrix} = \begin{bmatrix} 0 \\ (ra_1) - (rb_1) \\ -2(ra_1) \end{bmatrix} \in S$, and we conclude that S is a subspace. (Alternatively, we

have $S = \text{span} \left\{ \begin{bmatrix} 0 \\ 1 \\ -2 \end{bmatrix}, \begin{bmatrix} 0 \\ -1 \\ 0 \end{bmatrix} \right\}$, 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

$$x = s \begin{bmatrix} \square \\ \square \\ \square \end{bmatrix}$$

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