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## Chapter 4

# Subspaces

#### 4.1 Practice

Problems

- 1. (a) Not a subspace. The vector 0 = 0 is not in the set.
  - (b) Let S be the set of vectors of the form a-b = 0. Letting a = 0 and b = 0, we see that -2a

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

2. (a) We row-reduce

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

Thus, Ax = 0 has solutions of the form

# **Solution Manual For Linear Algebra Jeffery Holt**

**Jeffrey Holt** 

#### **Solution Manual For Linear Algebra Jeffery Holt:**

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