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Linear Algebra Done Right Solutions Manual Sheldon Axler 7 July 1997  
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This solutions manual provides answers to all the exercises in my book Linear 'Algebra Done Right. It is distributed (without charge) only to in-structors who are using Linear Algebra Done Right as a textbook. If you are such an instructor, please contact me (preferably via e-mail) to obtain the appropriate version of the solutions manual.

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though) contain some theorems or lemmas.. To visualize the equations, I recommend Google Chrome with the extension TeX All the Things or GitHub with MathJax.

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Solution: Suppose  $x = (x_1, \dots, x_n)$ . Then  $(a + b)x = (a + b)(x_1, \dots, x_n) = ((a + b)x_1, \dots, (a + b)x_n) = (ax_1 + bx_1, \dots, ax_n + bx_n) = (ax_1, \dots, ax_n) + (bx_1, \dots, bx_n) = a(x_1, \dots, x_n) + b(x_1, \dots, x_n) = ax + bx$ . Tags: Exercise A. Continue Reading. Next Post Chapter 1 Exercise B.

### **Chapter 1 Exercise A - Solutions to Linear Algebra Done Right**

It follows that we have homogeneity in the first slot when the scalar is rational. Now let  $\lambda \in \mathbb{R}$  and choose a sequence  $(r_n)$  of rational numbers such that  $r_n \rightarrow \lambda$ . This gives us  $\lambda hu, vi = . 1 = \lim (kr_n u + vk_2 - kr_n u - vk_2) \xrightarrow{n \rightarrow \infty} 4 1 = (k\lambda u + vk_2 - k\lambda u - vk_2) 4 = h\lambda u, vi$  Thus we have homogeneity in the first slot.

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Solution: See Linear Algebra Done Right Solution Manual Chapter 6 Problem 28. 3. Solution: Let  $u \in U$  and  $w \in U^\perp$ , then we have (2)  $Tu, w = u, T * w$ . If  $U$  is invariant under  $T$ , then  $Tu \in U$  for all  $u \in U$ . Hence for a fixed  $w \in U^\perp$ , we have  $0 = Tu, w = u, T * w$  for all  $u \in U$ . This implies  $T * w \in U^\perp$ .

## **Chapter 7 Exercise A - Solutions to Linear Algebra Done Right**

Solution: Let  $e_1, e_2, e_3, e_4$  be a basis of  $F^4$ , define  $R, T \in L(F^4)$  by  $Re_1 = 2e_1, Re_2 = 2e_2, Re_3 = 6e_3, Re_4 = 7e_4$  and  $Te_1 = 2e_1, Te_2 = 2e_2 + e_1, Te_3 = 6e_3, Te_4 = 7e_4$ . Then  $R$  is diagonalizable. In fact  $T$  is not diagonalizable since  $\dim$ .

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□.  $E(2, T) = 1, \dim.$

## Chapter 5 Exercise C - Solutions to Linear Algebra Done Right

Solution: See Linear Algebra Done Right Solution Manual Chapter 3

Problem 5. 10. Solution: Note that  $v_1, \dots, v_n$  spans  $V$ , any  $v \in V$  can be written as a linear combination of  $v_1, \dots, v_n$ . That is there are  $a_1, \dots, a_n \in F$  such that  $v = a_1 v_1 + \dots + a_n v_n$ .

## Chapter 3 Exercise B - Solutions to Linear Algebra Done Right

6. Solution: See Linear Algebra Done Right Solution Manual Chapter 5

Problem 3. 7. Solution: Let  $(x, y)$  be an eigenvector of  $T$  corresponding to eigenvalue  $\lambda$ , then we have  $T(x, y) = \lambda(x, y)$ , i.e.,  $(\lambda x, \lambda y) = (-3y, x)$ . Hence we have  $\lambda x = -3y$  and  $\lambda y = x$ , it follows that  $\lambda^2 x y = -3 x y$ .

## Chapter 5 Exercise A - Solutions to Linear Algebra Done Right

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Clearly  $F^3 = U_1 + U_2 + U_3$  because an arbitrary vector  $(x, y, z) \in F^3$  can be written as  $(x, y, z) = (x, y, 0) + (0, 0, z) + (0, 0, 0)$ , where the first vector on the right side is in  $U_1$ , the second vector is in  $U_2$ , and the third

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vector is in  $U_3$ . However,  $F_3$  does not equal the direct sum of  $U_1, U_2, U_3$  because the vector  $(0, 0, 0)$  can be written in two different ways as a sum  $u_1 + u_2 + u_3$ , with each  $u_j \in U_j$ .

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