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Linear Algebra Done Right Solutions Manual | Equations ...

Linear Algebra Done Right, 3rd Edition: Solutions. Most solutions here are of my own authorship, but some were done with the help of this site. The notes.md in each chapter folder (the ones that do have 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  $\alpha \in \mathbb{R}$  and choose a sequence  $(r_n)$  of rational numbers such that  $r_n \rightarrow \alpha$ . This gives us  $\langle \alpha u, v \rangle = \lim_{n \rightarrow \infty} \langle r_n u, v \rangle = \lim_{n \rightarrow \infty} (r_n \langle u, v \rangle) = \alpha \langle u, v \rangle$ . 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  $w \in U$ , then we have  $\langle Tu, w \rangle = \langle u, Tw \rangle$ . If  $U$  is invariant under  $T$ , then  $Tu \in U$  for all  $u \in U$ . Hence for a fixed  $w \in U$ , we have  $0 = \langle Tu, w \rangle = \langle u, Tw \rangle$  for all  $u \in U$ . This implies  $Tw = 0$ .

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  $\dim E(2, T) = 1, \dim E(7, T) = 1$ .

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### 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.,  $(x, y) = (\lambda x, \lambda y) = (\lambda x - 3y, x)$ . Hence we have  $x = \lambda x - 3y$  and  $y = x$ , it follows that  $2x = -3y$ .

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

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### Linear Algebra Abridged

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 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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