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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.

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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 $r_n \alpha \in \mathbb{Z}$. This gives us $h_n u, v_i = \alpha = \lim (kr_n u + vk_2 \alpha) = \lim (kr_n u + vk_2 \alpha) = (k\alpha u + vk_2 \alpha) = h\alpha u, v_i$ Thus we have homogeneity in the first slot.

Solutions To Axler Linear Algebra Done Right [k5460mezwx48]

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Sheldon Axler Linear Algebra Done Right - Yikun Zhang

Solution: If $a = 0$, we are done. If $a \neq 0$, then a has inverse a^{-1} such that $a^{-1}a = 1$. Hence $v = 1 \alpha v = (a^{-1}a)v = a^{-1}(av) = a^{-1}0 = 0$. Here we use associativity in 1.19 and 1.30. 3. Solution: Let $x = 1/3 (w + v)$, then $v + 3x = v + 3/3 (w + v) = v + (w + v) = w$. This shows existence.

Chapter 1 Exercise B - Solutions to Linear Algebra Done Right

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$\alpha^4 + i \sin \alpha$. $\alpha^4 = 2(1+i)^2$ and $e^{5i/4} = \cos \alpha + i \sin \alpha$. $5\alpha^4 = 2(1+i)^2$. Hence the roots are $2(1+i)^2$ and $2(1+i)^2$. Remark: If we don't know this fact, then we should recall how to solve the roots of $x^8 - 1 = 0$ or $x^4 + 1 = 0$ since $x^2 + i = 0$ means $x^4 + 1 = 0$.

Chapter 1 Exercise A - 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

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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Linear Algebra Done Right

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Linear Algebra Done Right Third Edition Errata. I tried hard to make Linear Algebra Done Right error-free, but spotting mistakes in one's own writing can be difficult in a book-length work. All errors in the third edition that I know about are listed below. These errors will be corrected in the next printing.

Linear Algebra Done Right Errata

You should try to check that T is a linear map and an isomorphism. If enough of you ask about it, I will add a detailed verification of that in the future. 3.F # 13 Recall that $T: \mathbb{R}^3 \rightarrow \mathbb{R}^2$ is given by

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