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It follows that we have homogeneity in the first slot when the scalar is rational. Now let $r \in \mathbb{R}$ and choose a sequence (r_n) of rational numbers such that $r_n \rightarrow r$. This gives us $\|ru + v\| = \|r_n u + v\| = \lim_{n \rightarrow \infty} \|r_n u + v\| = \|ru + v\|$. Thus we have homogeneity in the first slot.

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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 $v = 1^{-1}v = (a^{-1}a)v = a^{-1}(av) = a^{-1}0 = 0$. Here we use associativity in 1.19 and 1.30. 3. Solution: Let $x = \frac{1}{3}(w + v)$, then $v + 3x = v + 3 \cdot \frac{1}{3}(w + v) = v + (w + v) = w$. This shows existence.

Chapter 1 Exercise B - Solutions to Linear Algebra Done Right

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$\sqrt{4 + i}$. $\sqrt{4 + i} = \sqrt{2(1 + i)}$ and $e^{5\pi i/4} = \cos \frac{5\pi}{4} + i \sin \frac{5\pi}{4} = \frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2}$. Hence the roots are $\sqrt{2}(1 + i)$ and $\sqrt{2}(1 + i)$. Remark: If we don't know this fact, then we should recall how to solve the roots of $x^2 + 1 = 0$ 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 $u_1 + u_2 + u_3$, with each $u_j \in U_j$.

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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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