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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 $r_n \rightarrow \alpha$. This gives us $\sum_{i=1}^n r_i u_i + \sum_{i=1}^n r_i v_i = \sum_{i=1}^n (r_i u_i + r_i v_i) = \sum_{i=1}^n r_i (u_i + v_i) = \sum_{i=1}^n r_i w_i = \alpha \sum_{i=1}^n w_i = \alpha w$. 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 $v = 1 \cdot v = (a^{-1} a) v = a^{-1} (a v) = a^{-1} \cdot 0 = 0$. Here we use associativity in 1.19 and 1.30.

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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$\sqrt[4]{4 + i \sin \theta}$. $\sqrt[4]{4} = 2(1 + i)^{1/2}$ and $e^{i\theta/4} = \cos(\theta/4) + i \sin(\theta/4)$. $\sqrt[4]{4} = \sqrt{2}(1 + i)^{1/2}$. Hence the roots are $\sqrt{2}(1 + i)^{1/2}$ and $\sqrt{2}(1 + i)^{1/2}$. 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 of $u_1 + u_2 + u_3$, with each $u_j \in U_j$.

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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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