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It follows that we have homogeneity in the first slot when the scalar is rational. Now let $\lambda \in \mathbf{R}$ and choose a sequence (rn ) of rational numbers such that rn → $\lambda$. This gives us $\lambda$ hu, vi =. 1 = lim (krn u + vk2 − krn u − vk2 ) n→∞ 4 1 = (k $\lambda$ u + vk2 − k $\lambda$ u − vk2 ) 4 = h $\lambda$ u, vi 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 ≠ 0, then a has inverse a − 1 such that a − 1 a = 1. Hence v = 1 v = ( a − 1 a) v = a − 1 ( a v) = a − 1 0 = 0. Here we use associativity in 1.19 and and 1.30. 3. Solution: Let x = 1 3 ( w − v), then v + 3 x = v + 3 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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π 4 + i sin. . π 4 = 2 ( 1 + i) 2 and e 5 π i / 4 = cos. . 5 π 4 + i sin. . 5 π 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, ···, v n spans V, any v ∈ V can be written as a linear combination of v 1, ···, v n. That is there are a 1, ···, a n ∈ F such that v = a 1 v 1 + ··· + a n v n.

Chapter 3 Exercise B - Solutions to Linear Algebra Done Right
Clearly F3=U1+U2+U3because an arbitrary vector(x,y,z)∈F3can be written as. (x,y,z)=(x,y,0)+(0,0,z)+(0,0,0), where the **fi** rst vector on the right side is inU1, the second vector is inU2, and the third vector is inU3. However, F3does not equal the direct sum ofU1,U2,U3because the vector(0,0,0)can be written in twodifferentwaysasasumu1+u2+u3,witheachuj∈Uj.

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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 thatT:R 3 →R 2 is given by

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