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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.

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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 first 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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