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Solution: Suppose $x = (x_1, \dots, x_n)$. Then $(a + b)x = (a + b)(x_1, \dots, x_n) = ((a + b)x_1, \dots, (a + b)x_n) = (ax_1 + bx_1, \dots, ax_n + bx_n) = (ax_1, \dots, ax_n) + (bx_1, \dots, bx_n) = a(x_1, \dots, x_n) + b(x_1, \dots, x_n) = ax + bx$. Tags: Exercise A. Continue Reading. Next Post Chapter 1 Exercise B.

Chapter 1 Exercise A - Solutions to Linear Algebra Done Right

It follows that we have homogeneity in the first slot when the scalar is rational. Now let $\lambda \in \mathbb{R}$ and choose a sequence (r_n) of rational numbers such that $r_n \rightarrow \lambda$. This gives us $\lambda hu, vi = \lim_{n \rightarrow \infty} (kr_n u + vk^2 - kr_n u - vk^2) = \lim_{n \rightarrow \infty} (k r_n u + vk^2 - k r_n u - vk^2) = h\lambda u, vi$. Thus we have homogeneity in the first slot.

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Solution: See Linear Algebra Done Right Solution Manual Chapter 6 Problem 28. 3. Solution: Let $u \in U$ and $w \in U^\perp$, then we have $(2) T u, w = u, T * w$. If U is invariant under T , then $T u \in U$ for all $u \in U$. Hence for a fixed $w \in U^\perp$, we have $0 = T u, w = u, T * w$ for all $u \in U$. This implies $T * w \in U^\perp$.

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Chapter 7 Exercise A - Solutions to Linear Algebra Done Right

Solution: Let e_1, e_2, e_3, e_4 be a basis of F^4 , define $R, T \in L(F^4)$ by $Re_1 = 2e_1, Re_2 = 2e_2, Re_3 = 6e_3, Re_4 = 7e_4$ and $Te_1 = 2e_1, Te_2 = 2e_2 + e_1, Te_3 = 6e_3, Te_4 = 7e_4$. Then R is diagonalizable. In fact T is not diagonalizable since $\dim E(2, T) = 1, \dim$

Chapter 5 Exercise C - 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

6. Solution: See Linear Algebra Done Right Solution Manual Chapter 5 Problem 3. 7. Solution: Let (x, y) be an eigenvector of T corresponding to eigenvalue λ , then we have $T(x, y) = \lambda(x, y)$, i.e., $(\lambda x, \lambda y) = (-3y, x)$. Hence we have $\lambda x = -3y$ and $\lambda y = x$, it follows that $\lambda^2 x y = -3 x y$.

Chapter 5 Exercise A - Solutions to Linear Algebra Done Right

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Linear Algebra Abridged

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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