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Solution: Suppose $x = (x_1, \dots, x_n)$. Then $(a + b)x = (a + b)(x_1, \dots, x_n) = ((a + b)x_1, \dots, (a + b)x_n) = (ax_1 + bx_1, \dots, ax_n + bx_n)$.

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$(a_1x + \dots + a_nx) + (b_1x + \dots + b_nx) = a_1x + \dots + a_nx + b_1x + \dots + b_nx = (a_1 + b_1)x + \dots + (a_n + b_n)x$. 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

R and choose a sequence (r_n) of rational numbers such that $r_n \rightarrow \alpha$. This gives us $\|r_n u + v\| = 1 = \lim (k r_n \|u + v\| - k r_n \|u - v\|) = \alpha \|u + v\| - \alpha \|u - v\| = \|u + v\| - \|u - v\|$. 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 $w \in U$, then we

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have (2) $Tu = w = u, Tw = w$. If U is invariant under T , then $Tu \in U$ for all $u \in U$.

Hence for a fixed $w \in U$, we have $0 = Tu - w = u - Tw$ for all $u \in U$. This implies $Tw = w$.

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

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combination of v_1, \dots, v_n . That is there are $a_1, \dots, a_n \in \mathbb{F}$ 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., $(-3x, y) = (\lambda x, \lambda y)$. Hence we have $-3x = \lambda x$ and $y = \lambda y$, it follows that $-2x = y$.

Chapter 5 Exercise A - Solutions to Linear Algebra Done Right

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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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