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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 \mathbb{R} and choose a sequence (r_n) of rational numbers such that $r_n \rightarrow \alpha$. This gives us $\alpha u, v_i = 1 = \lim (kr_n u + vk^2 r_n u^2 + vk^2 r_n^2 u^3) = (k\alpha u + vk^2 \alpha^2 u^2 + vk^2 \alpha^3 u^3) = k\alpha u + vk^2 \alpha^2 u^2 + vk^2 \alpha^3 u^3 = h\alpha u, v_i$. 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 have $(2)Tu, w = u, T^2w$. If U is invariant under T , then $Tu \in U$ for all $u \in U$. Hence for a fixed $w \in U$, we have $0 = Tu, w = u, T^2w$ for all $u \in U$. This implies $T^2w = 0$.

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 $\dim \ker(T - 7I) = 1, \dim$.

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 $v = a_1v_1 + \dots + a_nv_n$.

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., $(\lambda x, \lambda y) = (\lambda^2 x, \lambda^2 y)$. Hence we have $\lambda x = \lambda^2 x$ and $\lambda y = \lambda^2 y$, it follows that $\lambda^2 x = \lambda x$.

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 of $u_1 + u_2 + u_3$, with each $u_i \in U_i$.

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