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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  $r_n \rightarrow h$ . This gives us  $h u, v_i = 1 = \lim (k r_n u + v_k^2 - k r_n u - v_k^2) = h u + v_i$ . 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  $a \neq 0$ , then  $a$  has inverse  $a^{-1}$  such that  $a^{-1} a = 1$ . Hence  $v = 1 \cdot v = (a^{-1} a) v = a^{-1} (a v) = a^{-1} \cdot 0 = 0$ . Here we use associativity in 1.19 and 1.30. 3. Solution: Let  $x = \frac{1}{3} (w - v)$ , then  $v + 3x = v + 3 \cdot \frac{1}{3} (w - v) = v + (w - v) = w$ . This shows existence.

Chapter 1 Exercise B - Solutions to Linear Algebra Done Right

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$4 + i \sin \theta$ .  $4 = 2(1 + i)^2$  and  $e^{5i/4} = \cos \theta + i \sin \theta$ .  $5 = 4 + i \sin \theta$ .  $5 = 2(1 + i)^2$ . 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  $v_1, \dots, v_n$  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  $v = a_1 v_1 + \dots + a_n v_n$ .

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## Chapter 3 Exercise B - Solutions to Linear Algebra Done Right

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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Linear Algebra Done Right Third Edition Errata. I tried hard to make Linear Algebra Done Right error-free, but spotting mistakes in one's own writing can be difficult in a book-length work. All errors in the third edition that I know about are listed below. These errors will be corrected in the next printing.

## 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 that  $T: \mathbb{R}^3 \rightarrow \mathbb{R}^2$  is given by

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