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This solutions manual provides answers to all the exercises in my book Linear Algebra Done Right. It is distributed (without charge) only to instructors who are using Linear Algebra Done Right as a textbook. If you are such an instructor, please contact me (preferably via e-mail) to obtain the appropriate version of the solutions manual.

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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  $r_n \rightarrow \alpha$ . This gives us  $h u, v_i = r_n u + v_i$ .  $1 = \lim (k r_n u + v_i) = k \alpha u + v_i$ .  $4 = (k \alpha u + v_i) = k \alpha u + v_i$ . 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.

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## Chapter 1 Exercise B - Solutions to Linear Algebra Done Right

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$4 + i \sin. \quad . \quad 4 = 2(1 + i)^2$  and  $e^{5i/4} = \cos. \quad .5 \quad 4 + i \sin. \quad .5 \quad 4 = -2(1 + i)^2$ . 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  $a_1, \dots, a_n \in \mathbb{F}$  such that  $v = a_1 v_1 + \dots + a_n v_n$ .

## 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

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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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