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Linear Algebra Done Right Solutions Manual Sheldon Axler 7 July 1997 © 1997 Sheldon Axler¶ This solutions manual provides answers to all the exercises in my book Linear Algebra Done Right. It is distributed (without charge) only to in-structors 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  $\lambda \in \mathbb{R}$  and choose a sequence  $(r_n)$  of rational numbers such that  $r_n \rightarrow \lambda$ . This gives us  $\lambda hu, vi = \lim (kr_n u + vk2 - kr_n u - vk2) n \rightarrow \infty 4 1 = (k\lambda u + vk2 - k\lambda u - vk2) 4 = h\lambda u, vi$  Thus we have homogeneity in the first slot.

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Linear Algebra Done Right Third edition 123. ISBN 0172-6056 ISSN 2197-5604 (electronic) ISBN 978-3-319-11079-0 ISBN 978-3-319-11080-6 (eBook) DOI 10.1007/978-3-319-11080-6 Springer Cham Heidelberg New York Dordrecht London Library of Congress Control Number: 2014954079

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  $a \cdot a^{-1} a = 1$ . 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 and 1.30. 3. Solution: Let  $x = 1 3 (w - v)$ , then  $v + 3 x = v + 3 \cdot 1 3 (w - v) = v + (w - v) = w$ . This shows existence.

Chapter 1 Exercise B - Solutions to Linear Algebra Done Right

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$\pi 4 + i \sin \dots \pi 4 = 2 (1 + i) 2$  and  $e 5 \pi i / 4 = \cos \dots 5 \pi 4 + i \sin \dots 5 \pi 4 = -2 (1 + i) 2$ . 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  $a 1, \dots, a n \in F$  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 of  $U 1, U 2, U 3$  because the vector  $(0, 0, 0)$  can be written in two different ways as  $u 1 + u 2 + u 3$ , with each  $u_j \in U_j$ .

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Linear Algebra Done Right

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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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