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linearalgebras.com Chapter 1 Exercise B - Solutions to Linear Algebra Done Right Linearity 2 minutes 1. Solution: By definition, we have  $(-1) + (-(-1)) = 0$  and  $+(-1) = 0$ . This implies both  $-1$  and  $-(-1)$  are additive inverses of  $-1$ , by the uniqueness of additive inverse, it follows that  $-(-1) = -1$ .

~~Chapter 1 Exercise B Solutions to Linear Algebra Done ...~~

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linearalgebras.com Chapter 2 Exercise A - Solutions to Linear Algebra Done Right Linearity 9-12 minutes 1. Suppose  $v_1, v_2, v_3, v_4$  spans  $V$ . Prove that the list  $v_1 - v_2, v_2 - v_3, v_3 - v_4, v_4$  also spans  $V$ . Solution: We just need to show that  $v_1, v_2, v_3, v_4$  can be expressed as linear combination of  $v_1 - v_2, v_2 - v_3, v_3 - v_4, v_4$ .

~~Chapter 2 Exercise A Solutions to Linear Algebra Done ...~~

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Solution: We show that if  $b = c = 0$ , then  $T$  is linear. Let  $f, g \in P(\mathbb{R})$ , then we have  $(f + g)(4) = f(4) + g(4)$  and  $(f + g)'(4) = f'(4) + g'(4)$ . It is easy to check. Moreover, by linearity of integration, one has  $\int_{-1}^3 (f + g)(x) dx = \int_{-1}^3 f(x) dx + \int_{-1}^3 g(x) dx = \int_{-1}^3 f(x) dx + \int_{-1}^3 g(x) dx$ . By the above, it follows that  $T(f + g) = (3(f + g)(4) + 5(f + g)'(4)) \int_{-1}^3 (f + g)(x) dx = (3(f(4) + g(4)) + 5(f'(4) + g'(4))) \int_{-1}^3 (f(x) + g(x)) dx = (3f(4) + 5f'(4)) \int_{-1}^3 f(x) dx + (3g(4) + 5g'(4)) \int_{-1}^3 g(x) dx = T(f) + T(g)$ .

~~Chapter 3 Exercise A - Solutions to Linear Algebra Done Right~~

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~~Sheldon Axler Linear Algebra Done Right - Yikun Zhang~~

1. Solution: Let  $u_1, u_2, \dots, u_n$  be a basis of  $U$ . Thus  $n = \dim U = \dim V$ . Hence  $u_1, u_2, \dots, u_n$  is a linearly... 2. Solution: The dimension of a subspace  $U$  of  $\mathbb{R}^2$  can only be 0, 1, 2. If  $\dim U = 0$ , then  $U = \{0\}$ . If  $\dim U = 2$ ,... 3. Solution: It is similar to Problem 2. If  $\dim U = 2$ , ...

~~Chapter 2 Exercise C - Solutions to Linear Algebra Done Right~~

Solving this system of equations, we have  $a = -1 - x - y^2$ ,  $b = -1 + x - y^2$ ,  $c = 1 - x + y^2$ . It is clear that scalars  $a, b, c$  are not all zero because  $b + c = 1$ . Hence  $w_1, w_2, w_3$  are linearly dependent as well. Suppose the system  $v_1, v_2, \dots, v_r, v_{r+1}$  is linearly dependent, we argue it by contradiction.

~~Solution to Linear Algebra Done Wrong Exercise 1.2.6 ...~~

Linear Algebra Done Right, 3rd Edition: Solutions. Most solutions here are of my own authorship, but some were done with the help of this site. The notes.md in each chapter folder (the ones that do have though) contain some theorems or lemmas. To visualize the equations, I recommend Google Chrome with the extension TeX All the Things or GitHub with MathJax.

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Denote the set in question by  $A$  in each part. (a) Let  $v, w \in A$ ,  $v = (x_1, x_2, x_3)$ ,  $w = (y_1, y_2, y_3)$ . Then  $x_1 + 2x_2 + 3x_3 = 0$  and  $y_1 + 2y_2 + 3y_3 = 0$ , so that  $0 = x_1 + 2x_2 + 3x_3 + y_1 + 2y_2 + 3y_3 = (x_1 + y_1) + 2(x_2 + y_2) + 3(x_3 + y_3)$ , so  $v + w \in A$ . Similarly  $0 = a_0 = ax_1 + 2ax_2 + 3ay_3$ , so  $av \in A$ .

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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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The text focuses on the central goal of linear algebra: understanding the structure of linear operators on finite-dimensional vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear algebra.

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