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Let  $V$  be the set of all ordered pairs of real numbers, and consider the following addition and scalar multiplication operations on  $\mathbf{u} = \langle u_1, u_2 \rangle$  and  $\mathbf{v} = \langle v_1, v_2 \rangle$ :  $\mathbf{u} + \mathbf{v} = \langle u_1 + v_1, u_2 + v_2 \rangle$ ,  $k\mathbf{u} = \langle ku_1, ku_2 \rangle$ . (a) Compute  $\mathbf{u} + \mathbf{v}$  and  $k\mathbf{u}$  for  $\mathbf{u} = \langle -1, 2 \rangle$ ,  $\mathbf{v} = \langle 3, 4 \rangle$ , and  $k = 3$ . (b) In words, explain why  $V$  is closed under addition and scalar multiplication. (c) since addition on  $V$  is the standard addition operation on  $\mathbb{R}^2$ , certain vector space axioms hold for  $V$  because they are known to hold for  $\mathbb{R}^2$ . Which axioms are they? (d) Show that Axioms 7, 8, and 9 hold. (e) Show that Axiom 10 fails and hence that  $V$  is not a vector space under the given operations. Anthony Ramos Numerade Educator 50% (2) 50% found this document useful (2 votes) 6K views 20 pages This document provides solutions to exercises related to systems of linear equations from the textbook Elementary Linear Algebra by Anton and Rorres. The exercises involve determining whether the AI-enhanced title and description Save Save Solution Manual for Elementary Linear Algebra For Later 50% (2) 50% found this document useful (2 votes) 6K views 20 pages This document provides solutions to exercises related to systems of linear equations from the textbook Elementary Linear Algebra by Anton and Rorres. The exercises involve determining whether the AI-enhanced title and description Related skills Associated roles Data architect Data/ML engineer Data scientist ML/AI architect Content preview from Elementary Linear Algebra, 11th Edition Recall that we began our study of vectors by viewing them as directed line segments (arrows). We then extended this idea by introducing rectangular coordinate systems, which enabled us to view vectors as ordered pairs and ordered triples of real numbers. As we developed properties of these vectors we noticed patterns in various formulas that enabled us to extend the notion of a vector to an n-tuple of real numbers. Although n-tuples took us outside the realm of our visual experience, it gave us a valuable tool for understanding and studying systems of linear equations. In this chapter we will extend the concept of a vector yet again by using the most important algebraic properties of vectors in  $\mathbb{R}^n$  as axioms. These axioms, if satisfied by a set of objects, will enable us to think of those objects as vectors. In this section we will extend the concept of a vector by using the basic properties of vectors in  $\mathbb{R}^n$  as axioms, which if satisfied by a set of objects, guarantee that those objects behave like familiar vectors. The following ... Steve Leon, Lisette de Pillis C. Henry Edwards, David E. Penney, David T. Calvis, David Calvis Hello there, you savvy scholars! We appreciate each and every one of you pursuing higher education and exploring the realm of knowledge. Here on Litsolutions.org, we aim to add a little magic to your academic journey. That's why we present the solution manual to none other than Anton H. Rorres C.'s "Elementary Linear Algebra - Applications Version," the stunning 11th edition, 2014 version. Ta-Da! Now, isn't that a mouthful! But it's worth every syllable, teeming with insight and intellect! Chuck full of mathematical dishes best served cold (because they're COOL, get it?). This masterpiece combines the best from both the authors, Anton H. and Rorres C., creating that 'perfect' college textbook for hungry minds. Remember, the solutions to your textbook problems are merely a few clicks away. 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