

- (17) (a) Part (c) of Exercise 16 states that $T_1(\ker(T \circ T_1)) = \ker(T)$. Substituting $T = L_2 \circ L$ and $T_1 = L_1^{-1}$ yields

$$L_1^{-1}(\ker(L_2 \circ L \circ L_1^{-1})) = \ker(L_2 \circ L).$$

Now $M = L_2 \circ L \circ L_1^{-1}$. Hence, $L_1^{-1}(\ker(M)) = \ker(L_2 \circ L)$.

- (b) With $L_2 = T_2$ and $L = T$, part (a) of Exercise 16 shows that $\ker(L_2 \circ L) = \ker(L)$. This, combined with part (a) of this exercise, shows that $L_1^{-1}(\ker(M)) = \ker(L)$.

- (c) From part (b),

$$\dim(\ker(L)) = \dim(L_1^{-1}(\ker(M))).$$

Apply Exercise 15 with L replaced by L_1^{-1} and $\mathcal{Y} = \ker(M)$ to show that

$$\dim(L_1^{-1}(\ker(M))) = \dim(\ker(M)),$$

completing the proof.

- (d) Part (c) of Exercise 16 states that $\text{range}(T_2 \circ T) = T_2(\text{range}(T))$. Substituting $L \circ L_1^{-1}$ for T and L_2 for T_2 yields

$$\text{range}(L_2 \circ L \circ L_1^{-1}) = L_2(\text{range}(L \circ L_1^{-1})).$$

Apply L_2^{-1} to both sides to produce

$$L_2^{-1}(\text{range}(L_2 \circ L \circ L_1^{-1})) = \text{range}(L \circ L_1^{-1}).$$

Using $M = L_2 \circ L \circ L_1^{-1}$ gives $L_2^{-1}(\text{range}(M)) = \text{range}(L \circ L_1^{-1})$, the desired result.

- (e) Part (b) of Exercise 16 states that $\text{range}(T \circ T_1) = \text{range}(T)$. Substituting L for T and L_1^{-1} for T_1 produces $\text{range}(L \circ L_1^{-1}) = \text{range}(L)$. Combining this with

$$L_2^{-1}(\text{range}(M)) = \text{range}(L \circ L_1^{-1})$$

from part (d) of this exercise yields $L_2^{-1}(\text{range}(M)) = \text{range}(L)$.

- (f) From part (e), $\dim(L_2^{-1}(\text{range}(M))) = \dim(\text{range}(L))$. Apply Exercise 15 with L replaced by L_2^{-1} and $\mathcal{Y} = \text{range}(M)$ to show that

$$\dim(L_2^{-1}(\text{range}(M))) = \dim(\text{range}(M)),$$

completing the proof.

- (18) (a) A nonsingular 2×2 matrix must have at least one of its first column entries nonzero. Then, use an appropriate equation from the two given in the problem.

- (b) $\begin{bmatrix} k & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} kx \\ y \end{bmatrix}$, a contraction (if $k \leq 1$) or dilation (if $k \geq 1$) along the x -coordinate.

Similarly, $\begin{bmatrix} 1 & 0 \\ 0 & k \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} x \\ ky \end{bmatrix}$, a contraction (if $k \leq 1$) or dilation (if $k \geq 1$) along the y -coordinate.

- (c) By the hint, multiplying by $\begin{bmatrix} k & 0 \\ 0 & 1 \end{bmatrix}$ first performs a dilation/contraction by part (a) followed by

a reflection about the y -axis. Using $\begin{bmatrix} 1 & 0 \\ 0 & k \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 0 & -k \end{bmatrix}$ shows that multiplying

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Table of Contents Elementary Linear Algebra Solution Larson 5th Edition

1. Understanding the eBook Elementary Linear Algebra Solution Larson 5th Edition
 - The Rise of Digital Reading Elementary Linear Algebra Solution Larson 5th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Linear Algebra Solution Larson 5th Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elementary Linear Algebra Solution Larson 5th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Linear Algebra Solution Larson 5th Edition
 - Personalized Recommendations
 - Elementary Linear Algebra Solution Larson 5th Edition User Reviews and Ratings
 - Elementary Linear Algebra Solution Larson 5th Edition and Bestseller Lists

5. Accessing Elementary Linear Algebra Solution Larson 5th Edition Free and Paid eBooks
 - Elementary Linear Algebra Solution Larson 5th Edition Public Domain eBooks
 - Elementary Linear Algebra Solution Larson 5th Edition eBook Subscription Services
 - Elementary Linear Algebra Solution Larson 5th Edition Budget-Friendly Options
6. Navigating Elementary Linear Algebra Solution Larson 5th Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Elementary Linear Algebra Solution Larson 5th Edition Compatibility with Devices
 - Elementary Linear Algebra Solution Larson 5th Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elementary Linear Algebra Solution Larson 5th Edition
 - Highlighting and Note-Taking Elementary Linear Algebra Solution Larson 5th Edition
 - Interactive Elements Elementary Linear Algebra Solution Larson 5th Edition
8. Staying Engaged with Elementary Linear Algebra Solution Larson 5th Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elementary Linear Algebra Solution Larson 5th Edition
9. Balancing eBooks and Physical Books Elementary Linear Algebra Solution Larson 5th Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elementary Linear Algebra Solution Larson 5th Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Elementary Linear Algebra Solution Larson 5th Edition
 - Setting Reading Goals Elementary Linear Algebra Solution Larson 5th Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Elementary Linear Algebra Solution Larson 5th Edition
 - Fact-Checking eBook Content of Elementary Linear Algebra Solution Larson 5th Edition
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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