

EXAMPLES OF LINEAR TRANSFORMATIONS

Translation Translation vectors that move the origin to the origin of the coordinate system	
Reflection The origin stays at the origin, but the coordinate system is reflected across the origin	
Rotation The origin stays at the origin, but the coordinate system is rotated around the origin	
Stretching The origin stays at the origin, but the coordinate system is stretched along the x and y axes	
Shearing The origin stays at the origin, but the coordinate system is sheared along the x and y axes	
Scaling The origin stays at the origin, but the coordinate system is scaled along the x and y axes	
Projection The origin stays at the origin, but the coordinate system is projected onto the x and y axes	

$$T(x) = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} ax + by \\ cx + dy \end{bmatrix}$$

PROPERTIES OF THE 2D LINEAR TRANSFORMATIONS

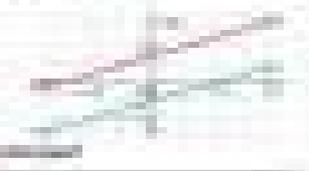


Translation, Reflection, Rotation, Stretching

Linear Transformations (Determinant)

Area in the original space

Area in the transformed space



Original area (shaded) = A units²

Area in the original space

Area in the transformed space

Area in the original space



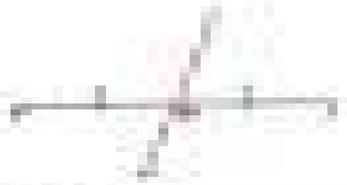
Area in the transformed space = $|det(T)| \cdot A$ units²

$$|det(T)| = \begin{vmatrix} a & b \\ c & d \end{vmatrix} = ad - bc$$

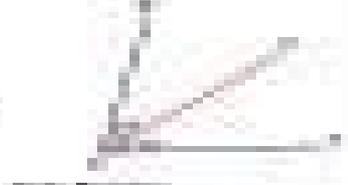
LINEAR TRANSFORMATIONS

The linear transformations that map the origin to the origin are:

Translation, Reflection, Rotation, Stretching, Shearing, Scaling, Projection



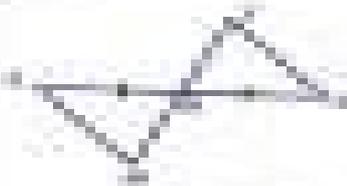
Translation



Reflection

LINEAR TRANSFORMATIONS

The linear transformations that map the origin to the origin are:



Area in the original space = A units²
 Area in the transformed space = $|det(T)| \cdot A$ units²

$$T(x) = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} ax + by \\ cx + dy \end{bmatrix}$$

Geometry Eoc Study Guide New Mexico

RC Schank



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1. Understanding the eBook Geometry Eoc Study Guide New Mexico
 - The Rise of Digital Reading Geometry Eoc Study Guide New Mexico
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Eoc Study Guide New Mexico
 - 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 Geometry Eoc Study Guide New Mexico
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Eoc Study Guide New Mexico
 - Personalized Recommendations
 - Geometry Eoc Study Guide New Mexico User Reviews and Ratings
 - Geometry Eoc Study Guide New Mexico and Bestseller Lists

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