

**Problem 1: Diagonalization of a symmetric matrix**

- Problem 1 is solved by using the spectral theorem for symmetric matrices.
- In particular, since  $A$  is symmetric, it is diagonalizable by an orthogonal matrix  $Q$ .
- The eigenvalues of  $A$  are  $\lambda_1 = 1$ ,  $\lambda_2 = 2$ , and  $\lambda_3 = 3$ .
- The corresponding eigenvectors are  $v_1 = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$ ,  $v_2 = \begin{pmatrix} 1 \\ 0 \\ -1 \end{pmatrix}$ , and  $v_3 = \begin{pmatrix} 1 \\ -1 \\ 0 \end{pmatrix}$ .
- The matrix  $Q$  is formed by normalizing these eigenvectors.

Key Concepts	Answers
<ul style="list-style-type: none"> <li>• The matrix <math>A</math> is symmetric, so it is diagonalizable by an orthogonal matrix.</li> <li>• The eigenvalues of <math>A</math> are <math>\lambda_1 = 1</math>, <math>\lambda_2 = 2</math>, and <math>\lambda_3 = 3</math>.</li> <li>• The corresponding eigenvectors are <math>v_1 = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}</math>, <math>v_2 = \begin{pmatrix} 1 \\ 0 \\ -1 \end{pmatrix}</math>, and <math>v_3 = \begin{pmatrix} 1 \\ -1 \\ 0 \end{pmatrix}</math>.</li> </ul>	<ul style="list-style-type: none"> <li>• <math>Q = \frac{1}{\sqrt{3}} \begin{pmatrix} 1 &amp; 1 &amp; 1 \\ 1 &amp; 0 &amp; -1 \\ 1 &amp; -1 &amp; 0 \end{pmatrix}</math></li> <li>• <math>D = \begin{pmatrix} 1 &amp; 0 &amp; 0 \\ 0 &amp; 2 &amp; 0 \\ 0 &amp; 0 &amp; 3 \end{pmatrix}</math></li> </ul>

The spectral theorem for symmetric matrices states that any real symmetric matrix can be diagonalized by an orthogonal matrix. In this problem, we use this theorem to find the orthogonal matrix  $Q$  and the diagonal matrix  $D$  such that  $A = QDQ^T$ .

**Problem 2: Diagonalization of a symmetric matrix**

- Problem 2 is solved by using the spectral theorem for symmetric matrices.
- In particular, since  $A$  is symmetric, it is diagonalizable by an orthogonal matrix  $Q$ .
- The eigenvalues of  $A$  are  $\lambda_1 = 1$ ,  $\lambda_2 = 2$ , and  $\lambda_3 = 3$ .
- The corresponding eigenvectors are  $v_1 = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$ ,  $v_2 = \begin{pmatrix} 1 \\ 0 \\ -1 \end{pmatrix}$ , and  $v_3 = \begin{pmatrix} 1 \\ -1 \\ 0 \end{pmatrix}$ .
- The matrix  $Q$  is formed by normalizing these eigenvectors.

Key Concepts	Answers
<ul style="list-style-type: none"> <li>• The matrix <math>A</math> is symmetric, so it is diagonalizable by an orthogonal matrix.</li> <li>• The eigenvalues of <math>A</math> are <math>\lambda_1 = 1</math>, <math>\lambda_2 = 2</math>, and <math>\lambda_3 = 3</math>.</li> <li>• The corresponding eigenvectors are <math>v_1 = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}</math>, <math>v_2 = \begin{pmatrix} 1 \\ 0 \\ -1 \end{pmatrix}</math>, and <math>v_3 = \begin{pmatrix} 1 \\ -1 \\ 0 \end{pmatrix}</math>.</li> </ul>	<ul style="list-style-type: none"> <li>• <math>Q = \frac{1}{\sqrt{3}} \begin{pmatrix} 1 &amp; 1 &amp; 1 \\ 1 &amp; 0 &amp; -1 \\ 1 &amp; -1 &amp; 0 \end{pmatrix}</math></li> <li>• <math>D = \begin{pmatrix} 1 &amp; 0 &amp; 0 \\ 0 &amp; 2 &amp; 0 \\ 0 &amp; 0 &amp; 3 \end{pmatrix}</math></li> </ul>

# Flvs Algebra 2 Module 2 Answers

**M Lipman**



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## **Table of Contents Flvs Algebra 2 Module 2 Answers**

1. Understanding the eBook Flvs Algebra 2 Module 2 Answers
  - The Rise of Digital Reading Flvs Algebra 2 Module 2 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Flvs Algebra 2 Module 2 Answers
  - 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 Flvs Algebra 2 Module 2 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Flvs Algebra 2 Module 2 Answers
  - Personalized Recommendations
  - Flvs Algebra 2 Module 2 Answers User Reviews and Ratings
  - Flvs Algebra 2 Module 2 Answers and Bestseller Lists

5. Accessing Flvs Algebra 2 Module 2 Answers Free and Paid eBooks
  - Flvs Algebra 2 Module 2 Answers Public Domain eBooks
  - Flvs Algebra 2 Module 2 Answers eBook Subscription Services
  - Flvs Algebra 2 Module 2 Answers Budget-Friendly Options
6. Navigating Flvs Algebra 2 Module 2 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Flvs Algebra 2 Module 2 Answers Compatibility with Devices
  - Flvs Algebra 2 Module 2 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Flvs Algebra 2 Module 2 Answers
  - Highlighting and Note-Taking Flvs Algebra 2 Module 2 Answers
  - Interactive Elements Flvs Algebra 2 Module 2 Answers
8. Staying Engaged with Flvs Algebra 2 Module 2 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Flvs Algebra 2 Module 2 Answers
9. Balancing eBooks and Physical Books Flvs Algebra 2 Module 2 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Flvs Algebra 2 Module 2 Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Flvs Algebra 2 Module 2 Answers
  - Setting Reading Goals Flvs Algebra 2 Module 2 Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Flvs Algebra 2 Module 2 Answers
  - Fact-Checking eBook Content of Flvs Algebra 2 Module 2 Answers
  - 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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