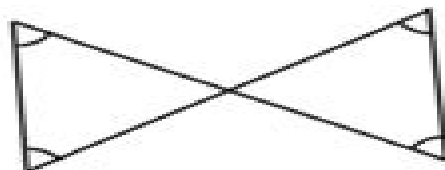


GEOMETRY FINAL EXAM

Directions: Circle the best answer for each question.

1. Can you prove the triangles are congruent? If so, how?

- a. Yes, ASA
- b. Yes, AAS
- c. Yes, SAS
- d. No



2. Which transformation would map the regular hexagon to itself?

- a. rotate 60° about $(0, 0)$
- b. translate left 2, up 4
- c. reflect over $x=1$
- d. dilate by a factor of 2 centered at $(0, 0)$



3. Find the measure of the missing angle. It is NOT a central angle.

- a. 32.5°
- b. 10.5°
- c. 43°
- d. 65°



4. Solve for x .

- a. 16.5
- b. 19.5
- c. 7.5
- d. 4.5



5. Solve for the missing side.

- a. $x = 15.7$
- b. $x = 23.2$
- c. $x = 19.3$
- d. $x = 7.3$



6. Ben is 5.8 ft. tall and his shadow is 10 ft. long. At the same time of day, a 14 ft. tree casts a shadow. How long will the shadow be?

- a. 24.1 ft.
- b. 8.1 ft.
- c. 4.1 ft.
- d. 17.3 ft.

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Emilie Sanchez

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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Table of Contents Geometry Study Guide Final Exam

1. Understanding the eBook Geometry Study Guide Final Exam
 - The Rise of Digital Reading Geometry Study Guide Final Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Study Guide Final Exam
 - 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 Study Guide Final Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Study Guide Final Exam
 - Personalized Recommendations

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

- 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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