

# GEOMETRY FINAL EXAM

Directions: Circle the best answer for each question.

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



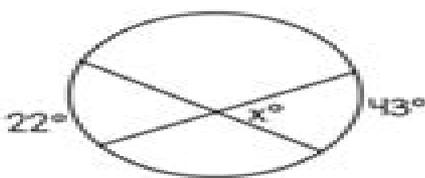
a. Yes, ASA  
 b. Yes, AAS  
 c. Yes, SAS  
 d. No

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



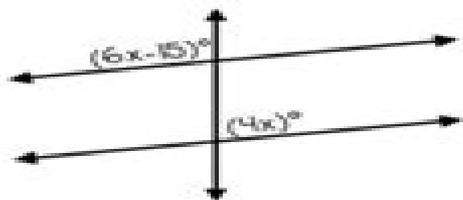
a. rotate  $60^\circ$  about  $(0, 0)$   
 b. translate left 2, up 4  
 c. reflect over  $x=1$   
 d. dilate by a factor of 2 centered at  $(0, 0)$

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



a.  $32.5^\circ$   
 b.  $10.5^\circ$   
 c.  $43^\circ$   
 d.  $65^\circ$

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.

# Geometry Semester 1 Exam Study Guide

**PT Brinkman**



## **Geometry Semester 1 Exam Study Guide:**

## The Enigmatic Realm of **Geometry Semester 1 Exam Study Guide**: Unleashing the Language is Inner Magic

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### **Table of Contents Geometry Semester 1 Exam Study Guide**

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

5. Accessing Geometry Semester 1 Exam Study Guide Free and Paid eBooks
  - Geometry Semester 1 Exam Study Guide Public Domain eBooks
  - Geometry Semester 1 Exam Study Guide eBook Subscription Services
  - Geometry Semester 1 Exam Study Guide Budget-Friendly Options
6. Navigating Geometry Semester 1 Exam Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Geometry Semester 1 Exam Study Guide Compatibility with Devices
  - Geometry Semester 1 Exam Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Geometry Semester 1 Exam Study Guide
  - Highlighting and Note-Taking Geometry Semester 1 Exam Study Guide
  - Interactive Elements Geometry Semester 1 Exam Study Guide
8. Staying Engaged with Geometry Semester 1 Exam Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Geometry Semester 1 Exam Study Guide
9. Balancing eBooks and Physical Books Geometry Semester 1 Exam Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Geometry Semester 1 Exam Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Geometry Semester 1 Exam Study Guide
  - Setting Reading Goals Geometry Semester 1 Exam Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometry Semester 1 Exam Study Guide
  - Fact-Checking eBook Content of Geometry Semester 1 Exam Study Guide
  - 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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