

Polygon Similarity

Big Picture

Have you ever seen siblings who look so alike that one seems to be a miniature copy of the other? Similar polygons follow the same concept of being the same shape but different in size. We can prove similarity in polygons, and there are several ways to prove that triangles are similar. Similar polygons also have many properties and relationships that can be used to solve problems.

Key Terms

Similar Polygons: Two polygons with the same shape but not the same size.

Scale Factor: The ratio relating corresponding side lengths of two similar polygons.

Similar Polygons

Similar Triangles



Similar Pentagons



Similar Quadrilaterals



Two polygons are similar if and only if:

- They have the same number of sides.
- Corresponding angles are congruent.
- Corresponding lengths are proportional.
 - a. For similar triangles, corresponding lengths include side lengths, altitudes, medians, and midsegments.

The symbol $\sim$ means similar. Figure A $\sim$ Figure B is a similarity statement. In similarity statements, corresponding vertices are listed in the same order.



Don't confuse $\sim$, $=$, and $\cong$.

In two similar polygons, the ratio relating any two corresponding lengths is equal to the scale factor.

- Scale factor = Length of polygon 1 : Corresponding length of polygon 2
- Two congruent figures are similar. Their scale factor is 1:1.



If you have difficulty matching up corresponding lengths, redraw the diagrams so that the corresponding lengths are easier to identify.

By definition, all the angles and sides of regular polygons (e.g. equilateral triangles, squares, etc.) are congruent. As a result, all regular polygons with the same number of sides are similar.



Geometry Similarity Study Guide Answers

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Table of Contents Geometry Similarity Study Guide Answers

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

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