

CONGRUENT TRIANGLES - Study Guide



If two triangles are congruent, then all of their corresponding sides and all of their corresponding angles are congruent.

Example: $\triangle ABC \cong \triangle DEF$
 $\angle A \cong \angle D$
 $\angle B \cong \angle E$
 $\angle C \cong \angle F$
 $AB \cong DE$
 $BC \cong EF$
 $AC \cong DF$



How to prove two triangles congruent:

Side-Side-Side (SSS)

If three sides of one triangle are congruent to three sides of another triangle, then the two triangles are congruent.



Example: $\triangle ABC \cong \triangle DEF$
 $AB \cong DE$
 $BC \cong EF$
 $AC \cong DF$
 $\triangle ABC \cong \triangle DEF$ (SSS)

Side-Angle-Side (SAS)

If two sides and the included angle of one triangle are congruent to two sides and the included angle of another triangle, then the two triangles are congruent.



Example: $\triangle ABC \cong \triangle DEF$
 $AB \cong DE$
 $\angle B \cong \angle E$
 $BC \cong EF$
 $\triangle ABC \cong \triangle DEF$ (SAS)

Angle-Side-Angle (ASA)

If two angles and the included side of one triangle are congruent to two angles and the included side of another triangle, then the two triangles are congruent.



Example: $\triangle ABC \cong \triangle DEF$
 $\angle A \cong \angle D$
 $AB \cong DE$
 $\angle B \cong \angle E$
 $\triangle ABC \cong \triangle DEF$ (ASA)

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Prove:

If two triangles are congruent, then all of their corresponding sides and all of their corresponding angles are congruent.

Statement	Reason
$\triangle ABC \cong \triangle DEF$	Given
$\angle A \cong \angle D$	Corresponding angles of congruent triangles are congruent.
$\angle B \cong \angle E$	Corresponding angles of congruent triangles are congruent.
$\angle C \cong \angle F$	Corresponding angles of congruent triangles are congruent.
$AB \cong DE$	Corresponding sides of congruent triangles are congruent.
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Prove: $\triangle ABC \cong \triangle DEF$

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Prove:

Given:



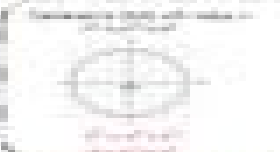
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Prove:

Given:



Prove: $\triangle ABC \cong \triangle DEF$



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David R. Klein



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Table of Contents Geometry Study Guide And Review And Answers

1. Understanding the eBook Geometry Study Guide And Review And Answers
 - The Rise of Digital Reading Geometry Study Guide And Review And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Study Guide And Review And 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 Study Guide And Review And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Study Guide And Review And Answers
 - Personalized Recommendations
 - Geometry Study Guide And Review And Answers User Reviews and Ratings
 - Geometry Study Guide And Review And Answers and Bestseller Lists
5. Accessing Geometry Study Guide And Review And Answers Free and Paid eBooks

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