## Geometry Lesson 4-5: Triangle Congruence: ASA, AAS, and HL

An INCLUBED SIDE is the common side of two consecutive angles in a polygon.

In the diagram, PQ is the included side of  $\angle P$  and  $\angle Q$ 

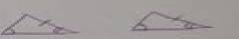
\* ASA (Angle-Side-Angle) Congruence (p. 252):

THEN THE AS ARE SE

A A

\* AAS (Angle-Angle-Side) Congruence (p. 254):

ARE THEN THE AS ARE &



# HL (Hypotenuse-Leg) Congruence (p. 255):

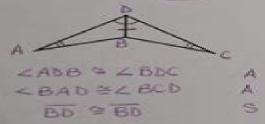
IF THE HYPOTENUSE AND A LEG ARE &,
THEN THE AS ARE &





#### Examples:

Can you use ASA to prove the triangles below ≅?
 Can you use AAS? Explain.



Can you use ASA to prove the triangles below 

 Can you use AAS? Explain.

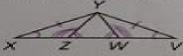


LN & LN

3. Given: ZX Z ZV

 $\angle YZW \cong \angle YWZ$  $\overline{XY} \cong \overline{YY}$ 

Prove: ∆XYZ ≅ ∆VYW



STATEMENTS

1. 4X G LV LYZW GLYWZ XY CY

2. LYZX SUPP. LYZW LYWY SUPP. LYWZ

3 LYZX = LYWV

4. AXYZ SAVYW

REASONS

1. GIVEN

2. LINEAR PAIR THM.

3. IF 243 ARE SUPP. TO 2 = 43, THEN THE 45 ARE

4- AAS (3,1,1)

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**RJ Shavelson** 

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## **Table of Contents Mathematics Geometry Unit 04 Triangles Answer Key**

- 1. Understanding the eBook Mathematics Geometry Unit 04 Triangles Answer Key
  - The Rise of Digital Reading Mathematics Geometry Unit 04 Triangles Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics Geometry Unit 04 Triangles Answer Key
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematics Geometry Unit 04 Triangles Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics Geometry Unit 04 Triangles Answer Key
  - Personalized Recommendations
  - Mathematics Geometry Unit 04 Triangles Answer Key User Reviews and Ratings
  - Mathematics Geometry Unit 04 Triangles Answer Key and Bestseller Lists
- 5. Accessing Mathematics Geometry Unit 04 Triangles Answer Key Free and Paid eBooks
  - Mathematics Geometry Unit 04 Triangles Answer Key Public Domain eBooks
  - Mathematics Geometry Unit 04 Triangles Answer Key eBook Subscription Services
  - Mathematics Geometry Unit 04 Triangles Answer Key Budget-Friendly Options

- 6. Navigating Mathematics Geometry Unit 04 Triangles Answer Key eBook Formats
  - o ePub, PDF, MOBI, and More
  - Mathematics Geometry Unit 04 Triangles Answer Key Compatibility with Devices
  - Mathematics Geometry Unit 04 Triangles Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Mathematics Geometry Unit 04 Triangles Answer Key
  - Highlighting and Note-Taking Mathematics Geometry Unit 04 Triangles Answer Key
  - Interactive Elements Mathematics Geometry Unit 04 Triangles Answer Key
- 8. Staying Engaged with Mathematics Geometry Unit 04 Triangles Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics Geometry Unit 04 Triangles Answer Key
- 9. Balancing eBooks and Physical Books Mathematics Geometry Unit 04 Triangles Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Geometry Unit 04 Triangles Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Geometry Unit 04 Triangles Answer Key
  - Setting Reading Goals Mathematics Geometry Unit 04 Triangles Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Geometry Unit 04 Triangles Answer Key
  - Fact-Checking eBook Content of Mathematics Geometry Unit 04 Triangles Answer Key
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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