

Geometry

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

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

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



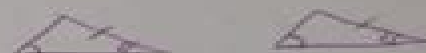
★ ASA (Angle-Side-Angle) Congruence (p. 252):

IF 2 CORRESPONDING \angle 'S AND THE INCLUDED SIDE ARE \cong , THEN THE Δ 'S ARE \cong



★ AAS (Angle-Angle-Side) Congruence (p. 254):

IF 2 CORRESPONDING \angle 'S AND A CORRESPONDING SIDE ARE \cong , THEN THE Δ 'S ARE \cong



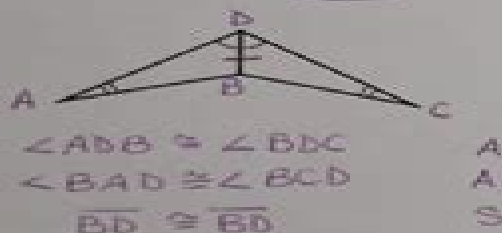
★ HL (Hypotenuse-Leg) Congruence (p. 255):

IF THE HYPOTENUSE AND A LEG ARE \cong , THEN THE Δ 'S ARE \cong



Examples:

- Can you use ASA to prove the triangles below \cong ?
Can you use AAS? Explain.



- Can you use ASA to prove the triangles below \cong ?
Can you use AAS? Explain.



$\angle KLN \cong \angle LNM$ A
 $\overline{LN} \cong \overline{LN}$ S
 $\angle KNL \cong \angle MLN$ A

- Given: $\angle X \cong \angle V$

$$\angle YZW \cong \angle YWZ$$

$$\overline{XY} \cong \overline{VY}$$

Prove: $\Delta XYZ \cong \Delta VYW$



STATEMENTS

- $\angle X \cong \angle V$
 $\angle YZW \cong \angle YWZ$
 $\overline{XY} \cong \overline{VY}$
- $\angle YZX$ SUPP. $\angle YZW$
 $\angle YWV$ SUPP. $\angle YWZ$
- $\angle YZX \cong \angle YWV$
- $\Delta XYZ \cong \Delta VYW$

REASONS

- GIVEN
- LINEAR PAIR THM.
- IF 2 \angle 'S ARE SUPP. TO 2 \cong \angle 'S, THEN THE \angle 'S ARE \cong
- AAS (3, 1, 1)
A A S

Mathematics Geometry Unit 04 Triangles Answer Key

B Lingard



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