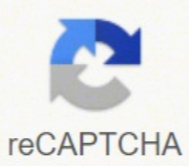




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Next

ANSWERS

PRACTICE - SSS, SAS, ASA, AAS, HL

Name: _____ Block: _____

For #1-9, determine if the triangles are congruent. If so, by which theorem?

1. SSS 2. AAS 3. SAS

4. not congruent 5. SSS 6. AAS

7. SAS 8. HL 9. SSS

SIDE SIDE SIDE

Mark each diagram with any theorem or given information. If the triangles are congruent by SSS, write the congruency statement.

1.

2.

3.

4.

5.

6.

7.

8.

9.

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:

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

$\angle ADB \cong \angle BDC$ A
 $\angle BAD \cong \angle BCD$ A
 $\overline{BD} \cong \overline{BD}$ S

2. 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

3. Given: $\angle X \cong \angle V$
 $\angle ZW \cong \angle WZ$
 $\overline{XY} \cong \overline{VY}$
Prove: $\Delta XYZ \cong \Delta VYW$

STATEMENTS	REASONS
1. $\angle X \cong \angle V$ $\angle ZW \cong \angle WZ$ $\overline{XY} \cong \overline{VY}$	1. GIVEN
2. $\angle YZX$ SUPP. $\angle YZW$ $\angle YWV$ SUPP. $\angle YWZ$	2. LINEAR PAIR THM.
3. $\angle YZX \cong \angle YWV$	3. IF 2 \angle 'S ARE SUPP. TO 2 \cong \angle 'S, THEN THE \angle 'S ARE \cong
4. $\Delta XYZ \cong \Delta VYW$	4. AAS (3, 1, 1) A A S

Right Triangle Congruence Theorems

Theorems	Abbreviation	Example
Leg-Leg Congruence If the legs of one right triangle are congruent to the corresponding legs of another right triangle, then the triangles are congruent.	LL same as (SAS)	
Hypotenuse-Angle Congruence If the hypotenuse and acute angle of one right triangle are congruent to the hypotenuse and corresponding acute angle of another right triangle, then the two triangles are congruent.	HA same as (AAS)	
Leg-Angle Congruence If one leg and an acute angle of one right triangle are congruent to the corresponding leg and acute angle of another right triangle, then the triangles are congruent.	LA same as (ASA)	

If you're seeing this message, that means we're having trouble loading external resources on our website. If you are behind a web filter, please make sure that *.kastatic.org and *.kasandbox.org domains are unlocked. In order to continue enjoying our website, we ask you to confirm your identity as a human. Thank you so much for your cooperation. The origin of the congruent word is from the Latin "congruere" meaning "correspond with" or "in harmony". A collection of work sheets of congruent triangles, declaration of congruence, identification of postulates, congruence in straight triangles and much more is presented here for exclusive use of the students of the 8th year and secondary education. A prior knowledge of triangular congruence postulates (SSS, SAS, ASA, AAS, and HL) is a prerequisite to work with the problems of this set of printable PDF work sheets. Tap some of these work sheets for free! Congruent Parts Implement this collection of pdf work sheets to introduce the congruence of triangles. Complete the congruence statement by annotating the corresponding side or the corresponding angle of the triangle. The answer key is included. Write the statement of congruence Write the statement of congruence for each pair of triangles in this set of work sheets of congruence triangles. Watch the congruent parties carefully and write the statement in the correct order. Indicate congruent angles and sides in each pair of triangles for the congruence statements presented on the work sheets in pdf. Identify and Write Postulates This range of printable work sheets is based on the four AAS, ASA, SAS and SSS postulates. Analyze each pair and declare the postulate to prove that the triangles are congruent. Write the missing congruence property Observe the corresponding parts of each pair of triangles and write the third matching property that @ Wow. © to prove the given congruence postulate. Congruing postulates in high triángans We widely classified the congruence postulates in triángans straight in four: LL, HL, HA, LA. Declare the correct postulate to prove that each pair of high triángans in this set of printable practice is congruent. Congrasse property in relieved three triángans This compilation of Liceu PDF work sheets focuses on the congruence of the straight triángans. Determine the lack of congruence in a pair of triángans to substantiate the postulate. postulate.

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