

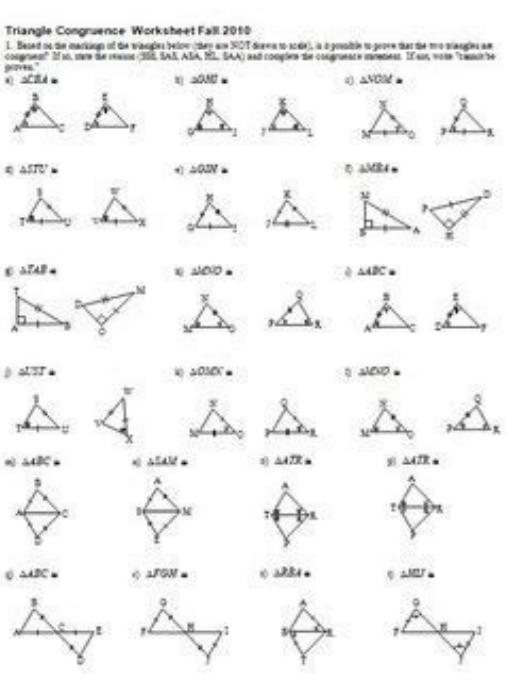


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**Geometry – Unit 5 Practice**  
**Congruence Criteria**  
G.CO.B.8, G.SRT.B.5

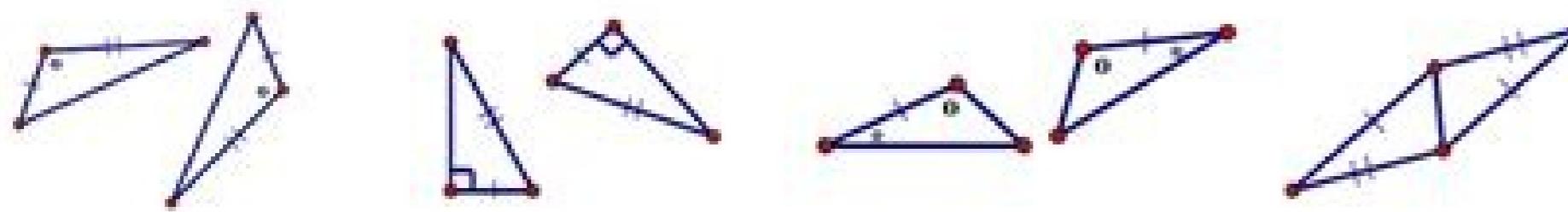
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**Quick Concept:** Two triangles are congruent by SSS, SAS, ASA, AAS and HL. Look for items that are not provided in the given or the diagram for additional information about sides and angles. The typical missing items are a common side, a common angle, vertical angles or parallel lines that provide more angle info.

- 1) Are the following pairs of triangles congruent? If they are, then name their congruence criteria.  
 (SSS, SAS, ASA, AAS, HL or NONE)

a) Yes / No \_\_\_\_\_ b) Yes / No \_\_\_\_\_ c) Yes / No \_\_\_\_\_ d) Yes / No \_\_\_\_\_



- 2) Are the following pairs of triangles congruent?

If YES, create a congruence statement and name the congruence criteria.  
 SSS, SAS, ASA, AAS, HL or AS<sub>1</sub>S<sub>2</sub> ( $S_2 > S_1$ )

a) Yes / No \_\_\_\_\_  $\Delta \underline{\quad} \cong \Delta \underline{\quad}$

Criteria \_\_\_\_\_

b) Yes / No \_\_\_\_\_  $\Delta \underline{\quad} \cong \Delta \underline{\quad}$

Criteria \_\_\_\_\_

c) Yes / No \_\_\_\_\_  $\Delta \underline{\quad} \cong \Delta \underline{\quad}$

Criteria \_\_\_\_\_

d) Yes / No \_\_\_\_\_  $\Delta \underline{\quad} \cong \Delta \underline{\quad}$

Criteria \_\_\_\_\_

e) Yes / No \_\_\_\_\_  $\Delta \underline{\quad} \cong \Delta \underline{\quad}$

Criteria \_\_\_\_\_

f) Yes / No \_\_\_\_\_  $\Delta \underline{\quad} \cong \Delta \underline{\quad}$

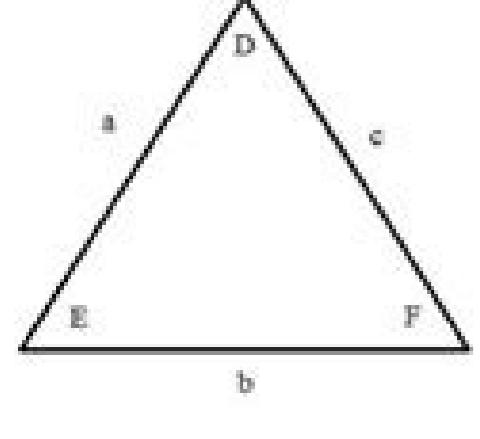
Criteria \_\_\_\_\_



SSS		ASA	
AAS		SAS	
ASA		SSS	
SAS		AAS	
HL		HL	

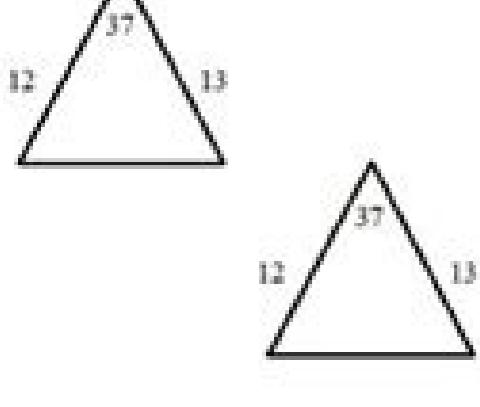
**Quiz & Worksheet - Included Angle of a Triangle**

1. Which angle is the included angle for sides b and c?



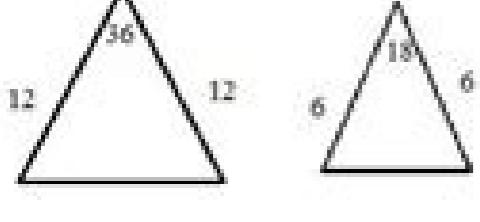
- D  
 E  
 F  
 can not be determined

2. Are these two triangles congruent?



- yes  
 no  
 can not be determined  
 no but they are similar

3. Are these triangles similar?



- yes  
 no  
 can not be determined  
 no, but they are congruent

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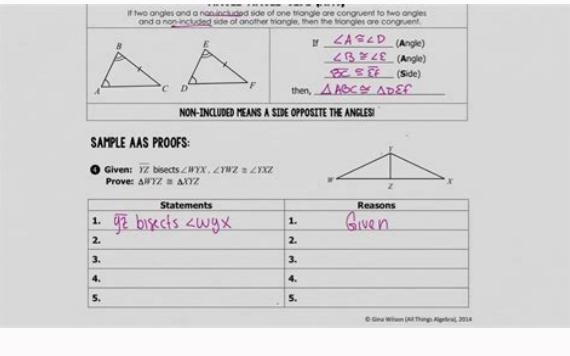


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Triangle congruence and proofs worksheet. Triangle congruence worksheet answers key.

ALL but 1 includes a teacher quick reference sheet. Hypotenuse-Leg (HL) This one is a little bit different. If you use the Nearpod version, students can draw tic marks and arc marks on the triangles to prove the two triangles congruent. The worksheet also guides students to get creative and add their own hidden shape pictures to the original. 3. Has worked great as an assessment for learners with learning disabilities that require conPage 3 looking for a fun activity to review polygons and closed figures? A two-page quiz with different level questions that cover triangle congruence and proofs of triangle congruence. The quiz assesses knowledge of the following triangle postulates and theorems: SSS, SAS, AAS, ASA, HL, CPCTC. Check out other Geometry items! Geometry Lesson: 5.1: Triangle MidsegmentsGeometry Lesson: 5.2: Perpendicular Bisector & CircumcenterGeometry Lesson: 5.3: Angle Bisector & IncenterGeometry Lesson: 5.4: Medians, Centroid, Altitudes, OrthocenterGeometry Lesson: 5.5: CenterPage 2 In this activity, students are given information about triangles and asked to prove the triangles congruent using SSS, SAS, AAS or ASA. A free set of 16 task cards. There are five of these certain cases and they are called postulates, which basically just means a rule.  $\angle B \cong \angle E$  (angle)  $\angle C \cong \angle F$  (angle)  $\overline{AC} \cong \overline{DF}$  (side)  $\therefore \Delta ABC \cong \Delta DEF$ . You should be able to see the first 16 problems from eachPage 2 Great for all learners! Covers: identifying polygons, right, equilateral, isosceles, and scalene triangles, parallel lines, congruency and similar shapes, identification of right angles in multiple forms such as on a clock, and lines of symmetry. Side-Side-Side (SSS) If we know that the three sides of a triangle are congruent to the three sides of another triangle, then the angles MUST be the same (or it wouldn't form a triangle). ALL task card sets include a recording sheet, a smart notebook file, a set of numbered cards, an absent or non mobile student sheet. It can only be used in a right triangle. So, if the two triangles are both right triangles and one of their corresponding legs are congruent as well as their hypotenuse, then they are congruent by the HL Postulate. Side-Angle-Side (SAS) If we can show that two sides and the angle IN BETWEEN them are congruent, then the whole triangle must be congruent as well. The three angles and the three sides must match. The given information is color coded so that when students submit their drawing, you know exactly what the misconceptions are. It looks like this:  $\overline{AB} \cong \overline{DE}$  (side)  $\angle B \cong \angle E$  (angle)  $\overline{BC} \cong \overline{EF}$  (side)  $\therefore \Delta ABC \cong \Delta DEF$  The angle HAS to be in between the two sides for the SAS Postulate to be used. I do this lesson before students get into proofs because it helps me identify what students know and don't know. This picture allows for students to hunt for hidden shapes: circles, trapezoids, rectangles, triangles, etc. Angle-Side-Angle (ASA) If we can show that two angles and the side IN BETWEEN them are congruent, then the whole triangle must be congruent as well. Can be used to pre-assess your students on their pre-requisite geometry knowledge, use as guided notes, a worksheet, homework, study guide, or an assessment. For extra challenges, have students write out the geometric definitions to the shapes, highlight angle types, identify parallel lines, find congruent shapes, etc. You CANNOT use Angle-Angle-Angle because two triangles can have the same angles but have completely different sides, like the following example:

No Congruent! You also CANNOT use Side-Side-Angle because it doesn't guarantee that the triangles will be completely congruent. Angle-Angle-Side (AAS) If the side is not in between the angles, it's actually still okay, but you must use the AAS Postulate.  $\overline{AB} \cong \overline{DE}$  (side)  $\overline{AC} \cong \overline{DF}$  (side)  $\angle C \cong \angle F$  (angle)  $\therefore \Delta ABC \cong \Delta DEF$  The symbol  $\therefore$  means "therefore." If we are able to show that the three corresponding sides are congruent, then we have enough information to prove that the two triangles are congruent because of the SSS Postulate! 2. 4. Color and black & white sheets included. Ple Two triangles are congruent if all six parts have the same measures. This sample includes: Triangle Congruence, Linear Pair, Pythagorean Theorem, 90 degree Transformation, Midsegment of a Triangle, quad Sum, Isosceles triangle sum, Trig ratios, Distance Formula, Angle addition Postulate. There is, however, a shorter way to prove that two triangles are congruent! In some cases, we are allowed to say that two triangles are congruent if a certain 3 parts match because the other 3 MUST be the same because of it.  $\Delta QRS \cong \Delta XYZ$  are right triangles  $\overline{QS} \cong \overline{XY}$  (hypotenuse)  $\overline{RS} \cong \overline{YZ}$  (leg)  $\therefore \Delta QRS \cong \Delta XYZ$  If you don't have one of these above postulates, then you don't have enough information to assume that the triangles are congruent.  $\angle B \cong \angle E$  (angle)  $\overline{BC} \cong \overline{EF}$  (side)  $\angle C \cong \angle F$  (angle)  $\therefore \Delta ABC \cong \Delta DEF$  The side HAS to be in between the two angles for the ASA Postulate to be used.

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