



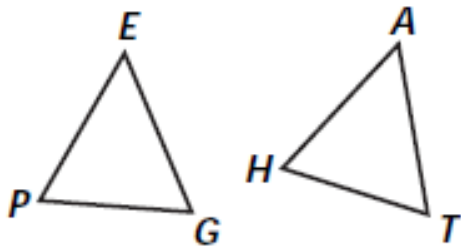
Name _____

Lesson 23: Congruent Triangles- SSS, ASA**LEARNING TARGETS**

I CAN prove two triangles are congruent using SSS, or ASA.

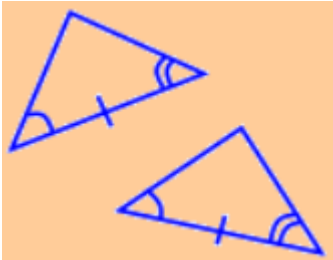
Warm Up

In the diagram below, $PG \cong HT$, $EG \cong AT$, and $\angle G \cong \angle T$. Which method could you use to prove the triangles are congruent?

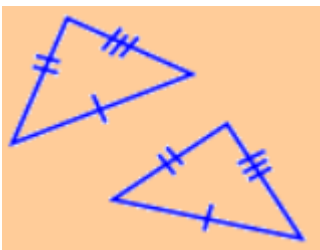


Mini Lesson:

Angle-Side-Angle triangle congruence criteria (ASA): Given two triangles ABC and $A'B'C'$. If $m\angle CAB = m\angle C'A'B'$ (Angle), $AB = A'B'$ (Side), and $m\angle CBA = m\angle C'B'A'$ (Angle), then the triangles are congruent.



Side-Side-Side triangle congruence criteria (SSS): Given two triangles ABC and $A'B'C'$. If $AB = A'B'$ (Side), $AC = A'C'$ (Side), and $BC = B'C'$ (Side) then the triangles are congruent.

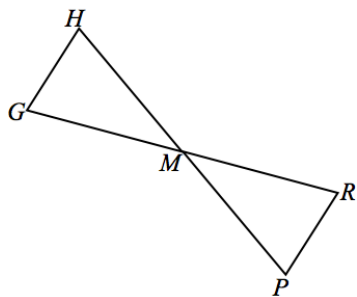


Work Time:

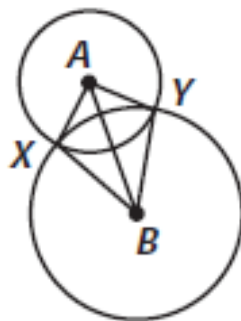
Based on the information provided, determine whether a congruence exists between triangles. If a congruence between triangles exists, state the congruencies and the criteria used to determine them.

1. Given:

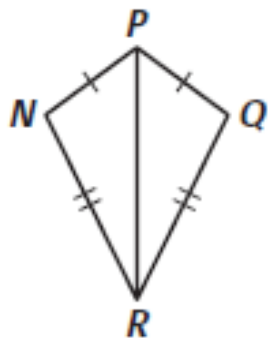
M is the midpoint of \overline{HP} , $m\angle H = m\angle P$.



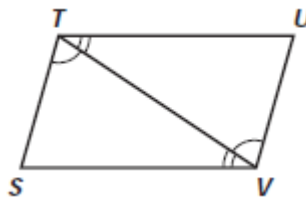
3.



2.



4.

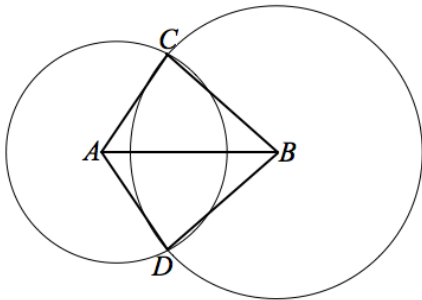


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Homework

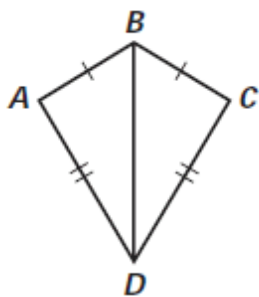
Lesson 23: Congruent Triangles - SSS, ASA

1. Given: Circles with centers A and B intersect at C and D .
 Prove: $\angle CAB \cong \angle DAB$.

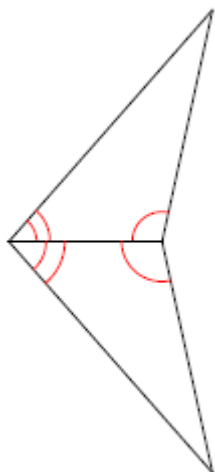


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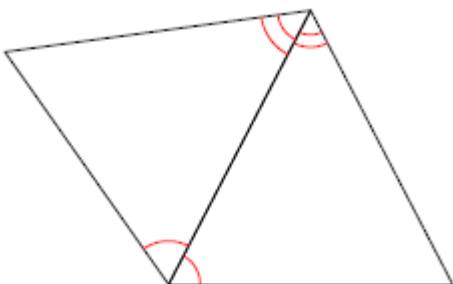
2.



3.



4.



5.

