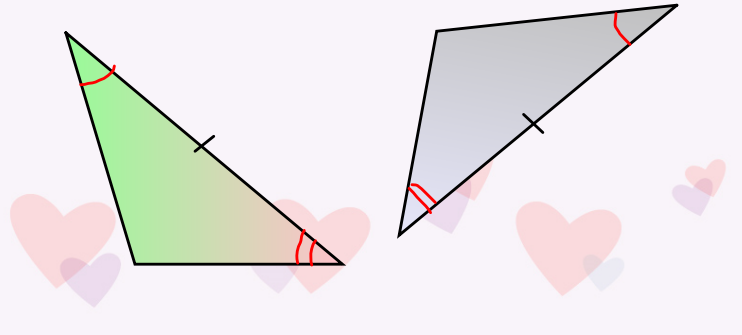


Proving triangles congruent by AAS and ASA

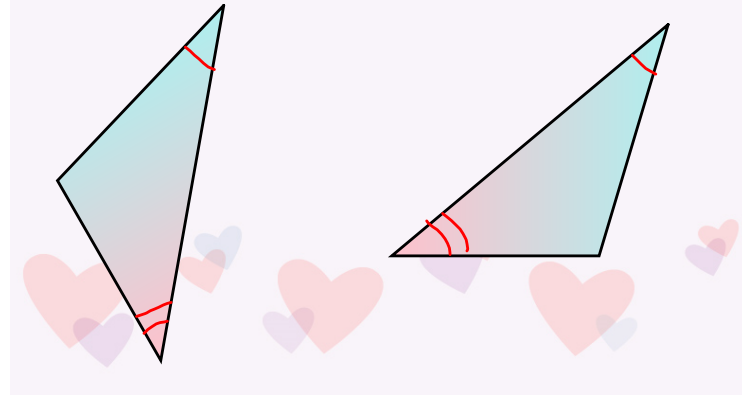
ASA: Angle-Side-Angle Congruence

2 congruent angles and the included side

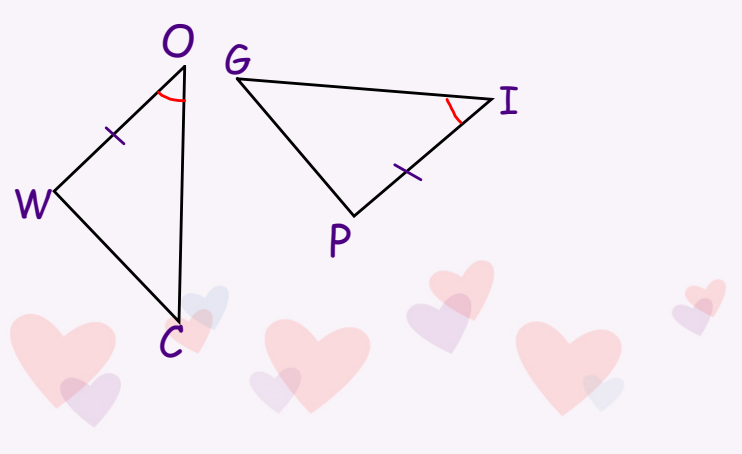


AAS: Angle-Angle-Side Congruence

2 congruent angles and a NON-INCLUDED side



If trying to prove triangles congruent by ASA, which information do we need?

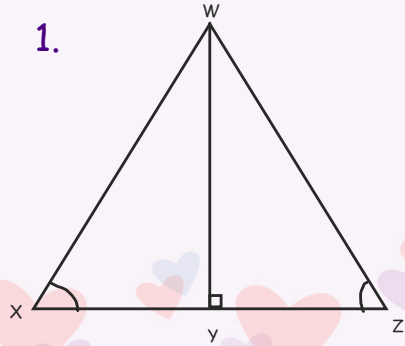


<http://www.freeasestudyguides.com/included-angle.html>

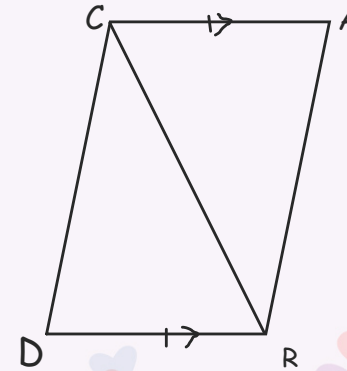
<http://www.mathsisfun.com/definitions/included-side.html>

Is it possible to prove the triangles are congruent?
If so, state the postulate or theorem you would use.

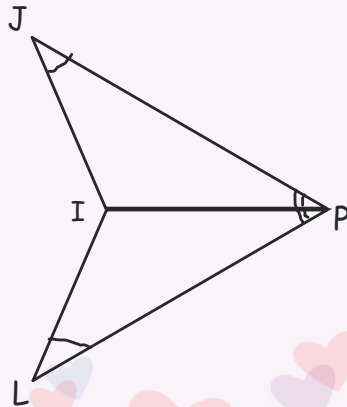
1.



2.

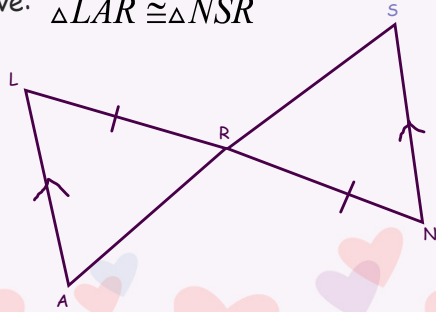


3.



Given: $\overline{LR} \cong \overline{NR}$, $\overline{LA} \parallel \overline{NS}$

Prove: $\triangle LAR \cong \triangle NSR$



statements	reasons

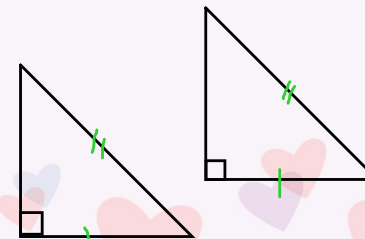


<http://www.brightstorm.com/math/geometry/triangles/why-ssa-and-aaa-dont-work-as-congruence-shortcuts/>

The last way to show triangles are congruent is **Hypotenuse Leg (HL)**.

This can only be used in a right triangle.

Ex.



Are any triangles congruent in the figure below?

