

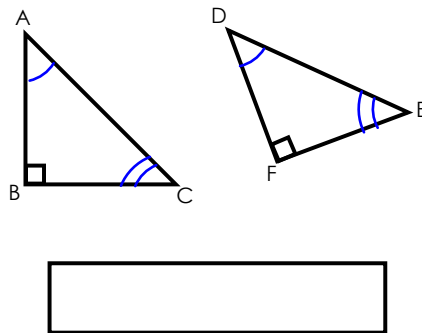
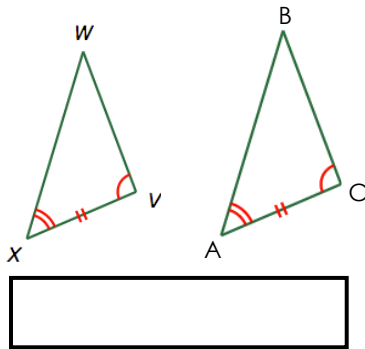
2.3 ASA, AAS, and HL Congruence

Objective: Students will be able to prove congruence using ASA, AAS, and HL

Angle Side Angle Congruence (ASA)

Two congruent angles with a congruent side **inbetween the angles**

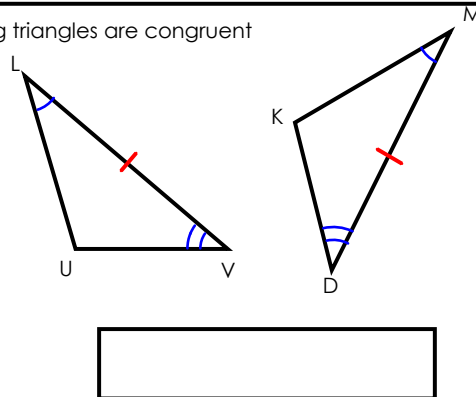
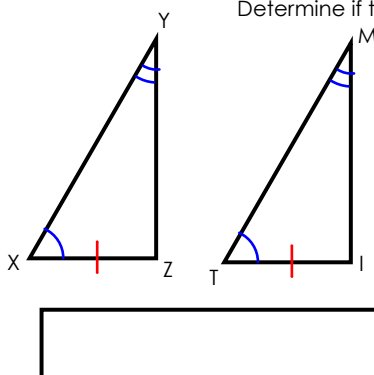
Determine the following triangles are congruent



Angle Angle Side Congruence (AAS)

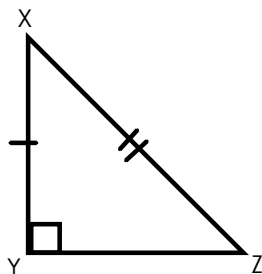
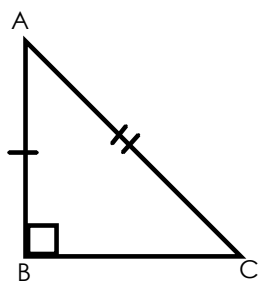
Two congruent angles with a congruent side **NOT inbetween the angles**

Determine if the following triangles are congruent

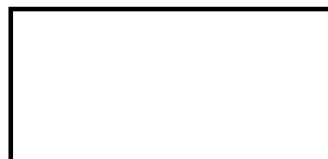


Hypotenuse Leg Congruence (HL)

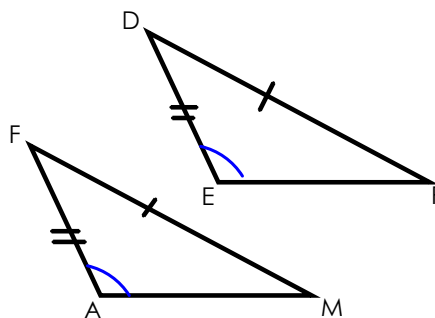
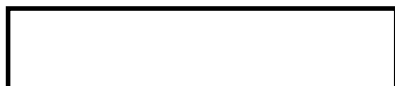
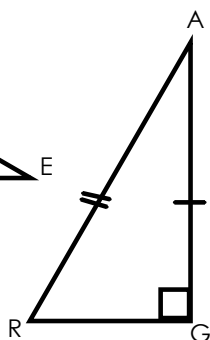
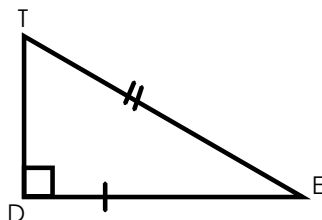
Two **RIGHT** triangles are congruent if they each have a congruent leg and a congruent hypotenuse



Determine if $\triangle ABC \cong \triangle XYZ$

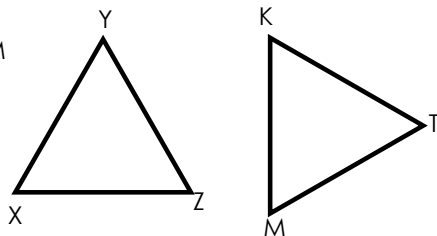


Determine the following triangles are congruent



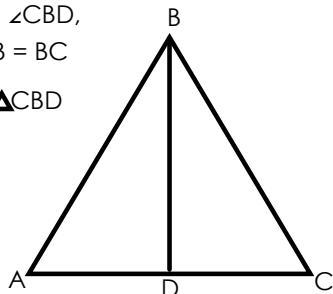
Given: $\angle Y = \angle T$, $\angle X = \angle K$
and $XZ = KM$

Prove: $\triangle XYZ \cong \triangle KTM$



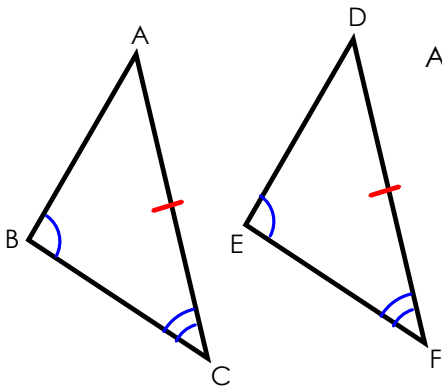
Given: $\angle ABD = \angle CBD$,
 $\angle A = \angle C$ and $AB = BC$

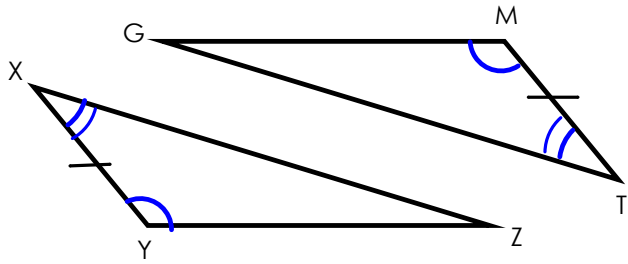
Prove: $\triangle ABD \cong \triangle CBD$

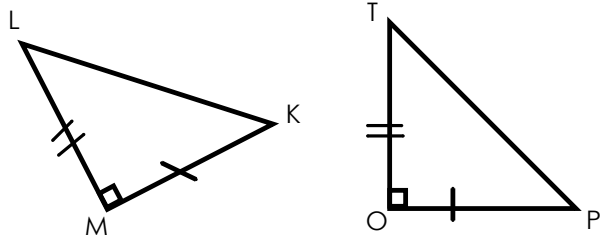


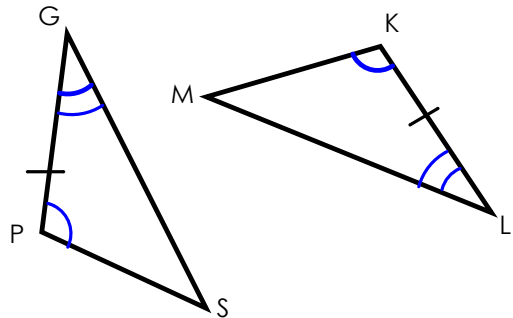
Independent Practice

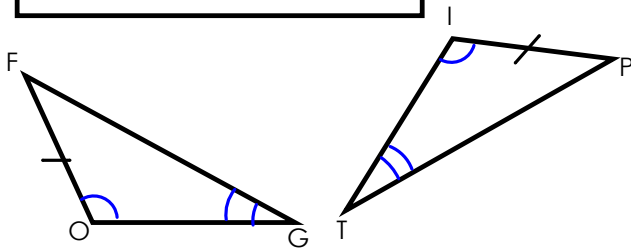
Are the pairs of triangles congruent?

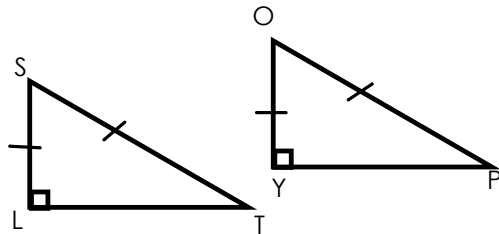


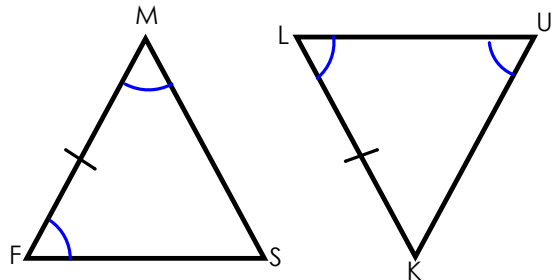


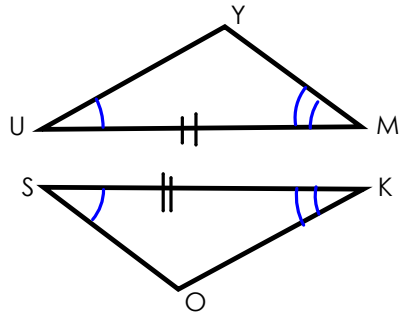




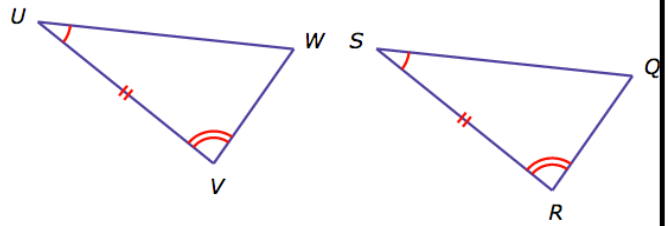
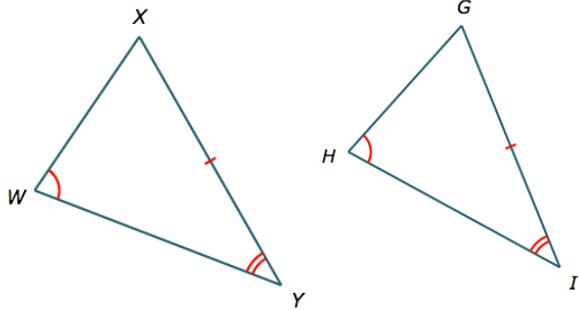








Prove the following triangles are congruent



Statement	Reason

