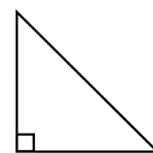What are the 6 ways to prove two triangles congruent?
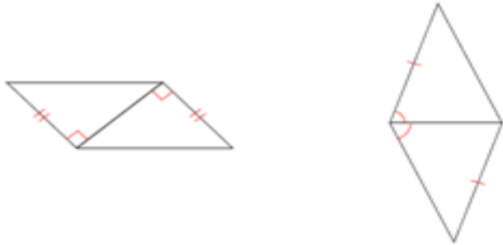
What does CPCTC stand for?

Label all of the parts on the isosceles triangle.

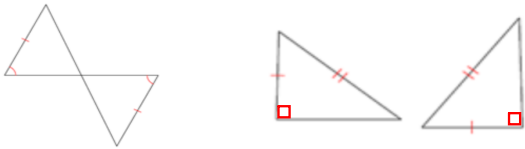Label all of the parts of the right triangle.

State if the two triangles are congruent. If they are, state by which way.

State if the two triangles are congruent. If they are, state by which way.

State if the two triangles are congruent. If they are, state by which way.

State if the two triangles are congruent. If they are, state by which way.

State what additional information is required in order to know that the triangles are congruent for the reason given.

ASA

ASA

State what additional information is required in order to know that the triangles are congruent for the reason given.

ASA

SAS

State what additional information is required in order to know that the triangles are congruent by HL.

State what additional information is required in order to know that the triangles are congruent for the reason given.
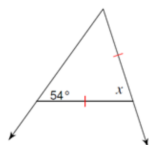
SAS

ASA
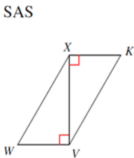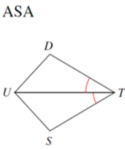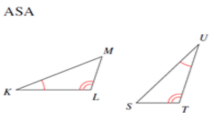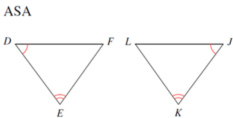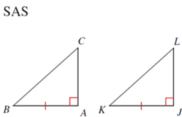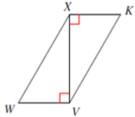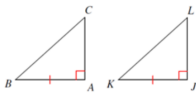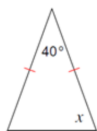
Find the value of x.
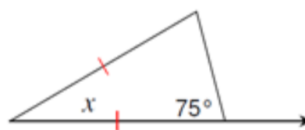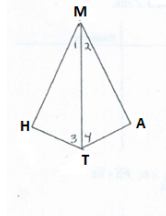

Find the value of x.

Find the value of x.

Find the value of x.
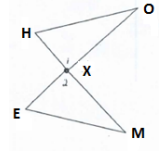
$Given: \overline{MH} \cong \overline{MA}; <1 \cong <2$

$Prove: \triangle MTH \cong \triangle MTA$

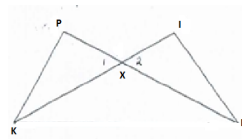$Given: \overline{HX} \cong \overline{XE}; <O \cong <M$

$Prove: \overline{HO} \cong \overline{ME}$

$Given: \overline{KX} \cong \overline{NX}, \overline{PX} \cong \overline{XI}$

$Prove: \overline{PK} \cong \overline{IN}$

$Given: \overline{GL} \cong \overline{IL}, <L \text{ and } <I \text{ are right angles}$

$Prove: \triangle GRL \cong \triangle GRI$