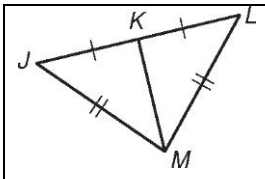
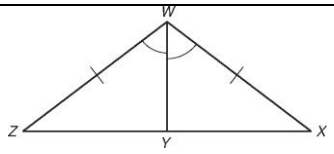
Triangle Congruence HW

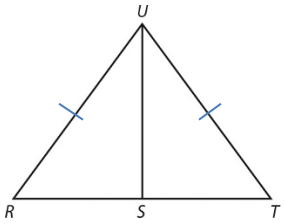
For each pair of triangles, say whether or not you can prove the triangles congruent.

If yes, write "yes" and which shortcut you would use AND write the congruence statement.
For example: $\Delta ABC \cong \Delta EDF$.

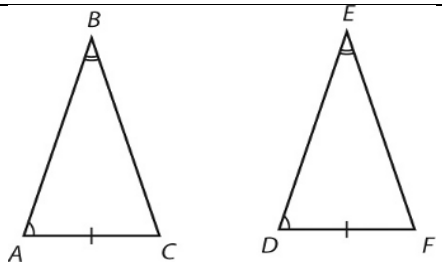
If no, explain why not.

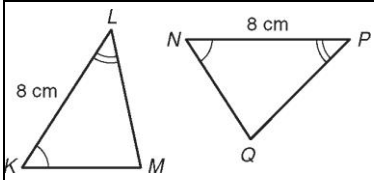


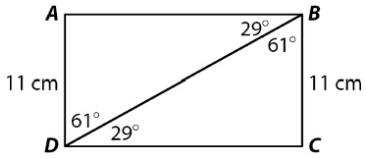


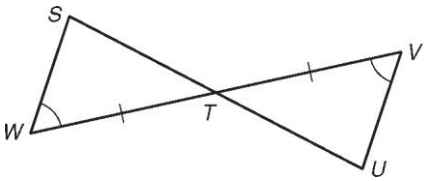


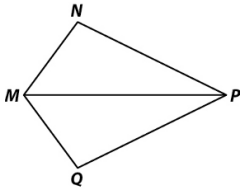
S is the midpoint of $\overline{RT}$





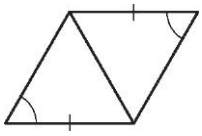






MP bisects $\angle NMQ$ and $\angle NPQ$.

Write which of the congruence shorcuts can be used to prove the triangles congruent.
If no shortcuts can be used, write NONE.



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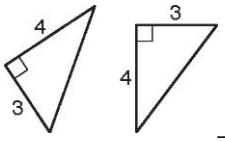

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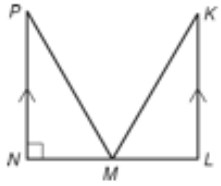

M is the midpoint of $\overline{NL}$

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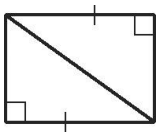

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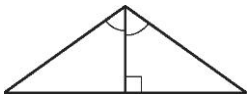

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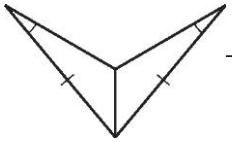

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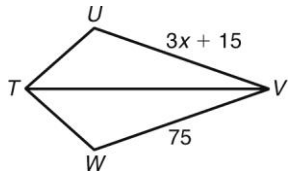
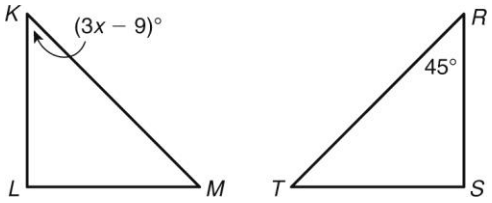
Find the value of x so that the triangles are congruent. Show all work!



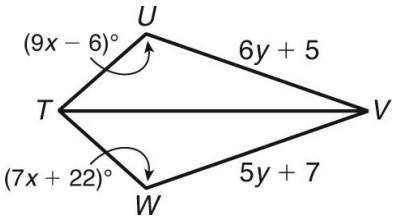
Given: $\triangle TUV \cong \triangle TWV$.

$x =$ _____



Given: $\triangle KLM \cong \triangle RST$

$x =$ _____



$m\angle U =$ _____

$UV =$ _____

Given: $\triangle TUV \cong \triangle TWV$.

Write a proof. You may write a paragraph proof, flow chart proof, or two-column proof.

Given: C is the midpoint of $\overline{AD}$ and $\overline{BE}$.

Prove: $\triangle ABC \cong \triangle DEC$