

See ANSWERS below on PAGE 3.

1. $\angle B \cong \angle Y$, $\angle A \cong \angle Z$, $BC \cong YX$

2. $\angle C \cong \angle X$, $\angle A \cong \angle Z$, $CA \cong XZ$

3. $AC \cong ZX$, $\angle B \cong \angle Y$, $BC \cong YX$

For the following you are given triangle DNA, triangle TMO, $DN \cong TM$, and $\angle D \cong \angle T$.

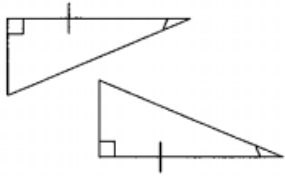
4. What additional information is needed for a SAS congruence correspondence?

5. What additional information is needed for a ASA congruence correspondence?

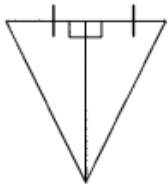
6. What additional information is needed for a AAS congruence correspondence?

Can the two triangles be proven congruent? If so, write the method. If not, write "none".

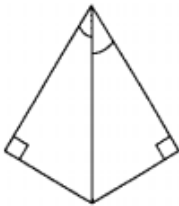
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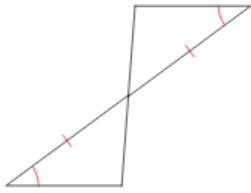
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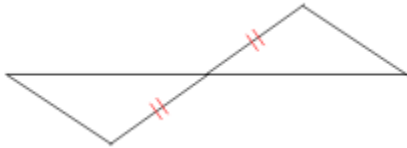
9.



10.



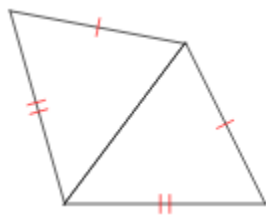
11.



12.

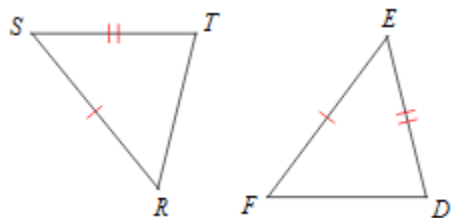


13.

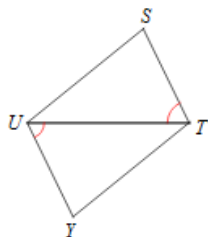


State what additional information is required in order to know that the triangles are congruent for the given reason.

14. SAS



15. AAS

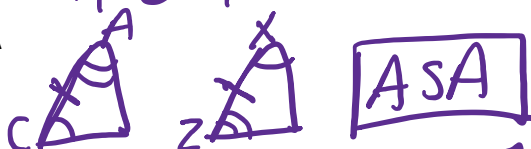


Answers:

1. AAS



2. ASA



3. none



4. $DA \cong TO$

SAS $DA \cong TO$

5. $\angle N \cong \angle M$

ASA $\angle N \cong \angle M$

6. $\angle A \cong \angle O$

AAS $\angle A \cong \angle O$



7. ASA

8. SAS

9. AAS

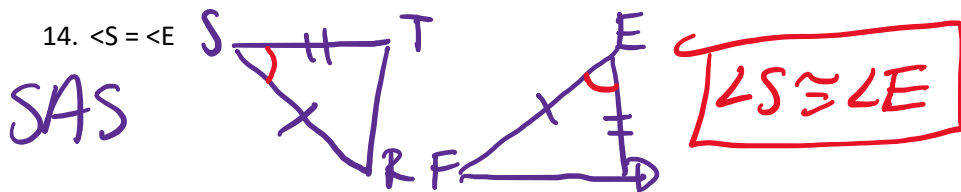
10. ASA

11. none

12. none

13. SSS

14. $\angle S \cong \angle E$



15. $\angle S \cong \angle Y$

