

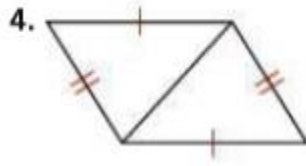
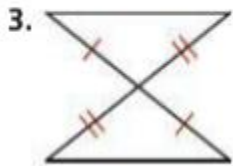
Day 3 Homework – 4.2, 4.3, 4.6 Proving Triangles Congruent

Pg. 230 3-4, 11-14, 21, 24-26, 35

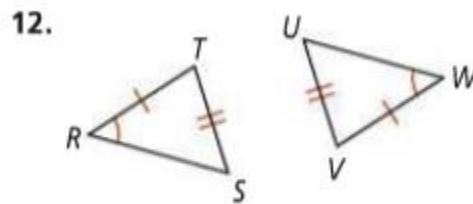
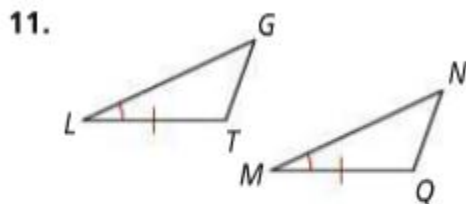
p. 238 8-9, 16-18, 23, 32

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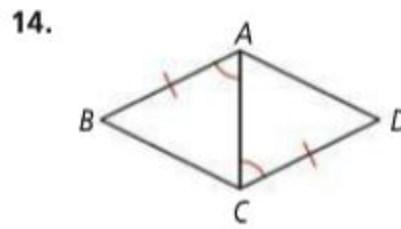
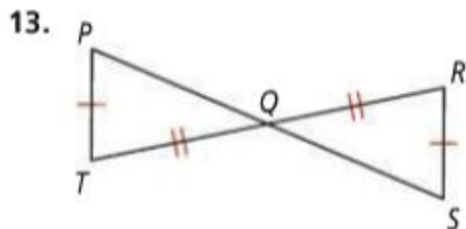
Name the postulate you would use to prove the triangles congruent.



What other information, if any, do you need to prove the two triangles congruent by SAS? Explain.

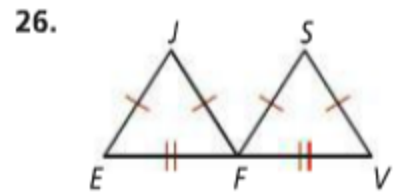
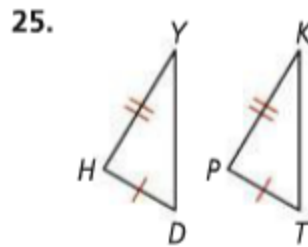
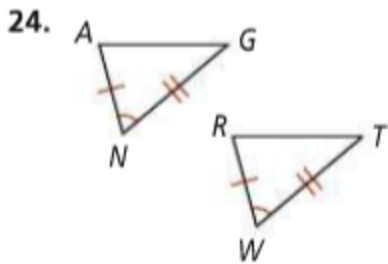


Would you use SSS or SAS to prove the triangles congruent? If there is not enough information to prove the triangles congruent by SSS or SAS, write *not enough information*. Explain your answer.



21. **Writing** List three real-life uses of congruent triangles. For each real-life use, describe why you think congruence is necessary.

Can you prove the triangles congruent? If so, write the congruence statement and name the postulate you would use. If not, write *not enough information* and tell what other information you would need.



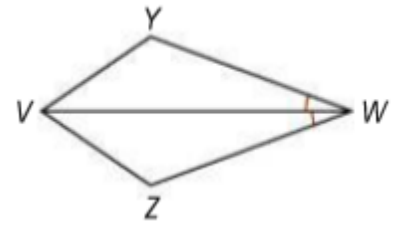
35. What additional information do you need to prove that $\triangle VWY \cong \triangle VWZ$ by SAS?

A $\overline{YW} \cong \overline{ZW}$

C $\angle Y \cong \angle Z$

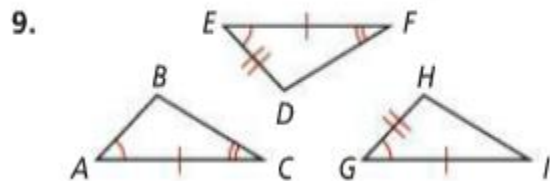
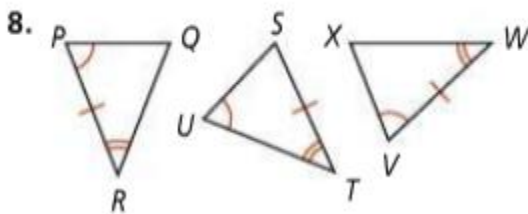
B $\angle WVY \cong \angle WVZ$

D $\overline{VZ} \cong \overline{VY}$



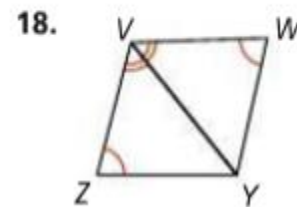
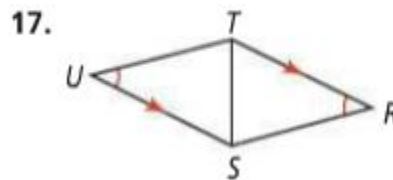
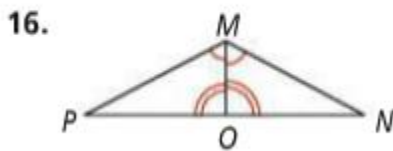
Name two triangles that are congruent by ASA.

See Prob



Determine whether the triangles must be congruent. If so, name the postulate or theorem that justifies your answer. If not, explain.

See |



23. **Reasoning** Can you prove that the triangles at the right are congruent? Justify your answer.

24. **Writing** Anita says that you can rewrite any proof that uses the AAS Theorem as a



32. Suppose $\overline{RT} \cong \overline{ND}$ and $\angle R \cong \angle N$. What additional information do you need to prove that $\triangle RTJ \cong \triangle NDF$ by ASA?

A $\angle T \cong \angle D$

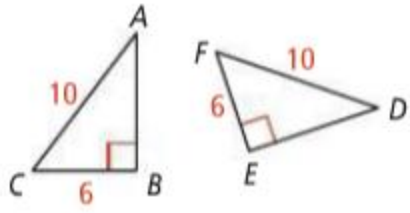
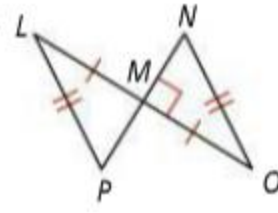
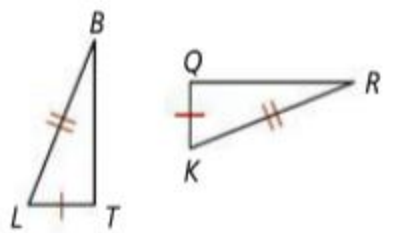
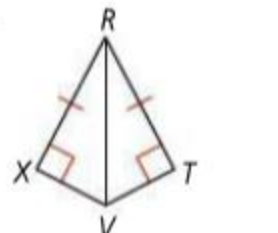
B $\angle J \cong \angle F$

C $\angle J \cong \angle D$

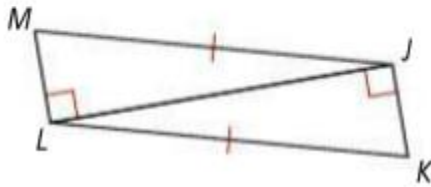
D $\angle T \cong \angle F$

Do you know HOW?

Are the two triangles congruent? If so, write the congruence statement.

1. 
2. 
3. 
4. 

7. **Error Analysis** Your classmate says that there is not enough information to determine whether the two triangles below are congruent. Is your classmate correct? Explain.



25. **Reasoning** Are the triangles congruent? Explain.

