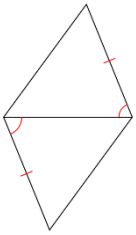
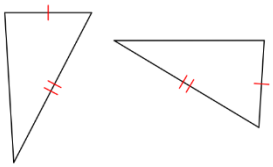
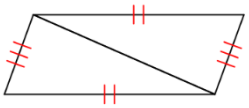
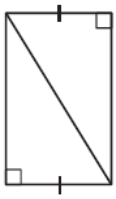
Math 2 Unit 3 Worksheet 2 **Name:**_____
Types of Triangle Congruence **Date:**_____ **Per:**_____

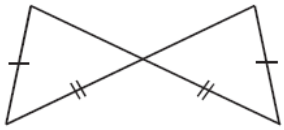
[1-15] Determine if they two triangles are congruent. If yes, state the postulate that makes the triangles congruent. If no, write, "not enough information".

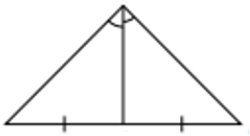
1. 

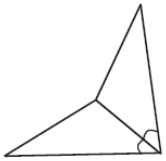
2. 

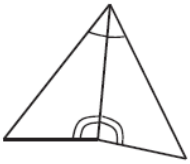
3. 

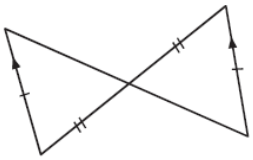
4. 

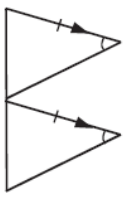
5. 

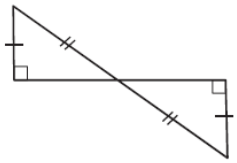
6. 

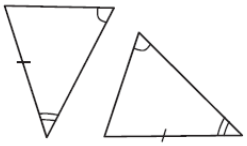
7. 

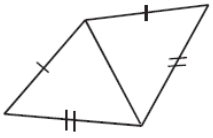
8. 

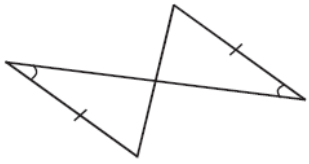
9. 

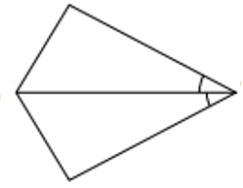
10. 

11. 

12. 

13. 

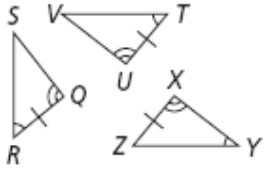
14. 

15. 

16. Suppose $\overline{GH} \cong \overline{JK}, \overline{HI} \cong \overline{KL}$, and $\angle I \cong \angle L$. Is $\triangle GHI$ congruent to $\triangle JKL$? Explain your reasoning.

[17-19] Name two triangles that are congruent by ASA.

17.



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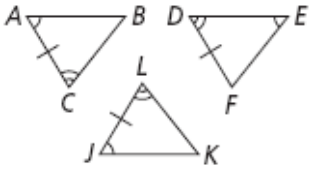

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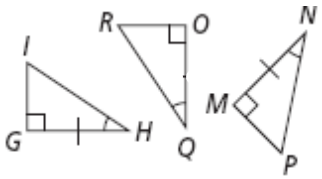
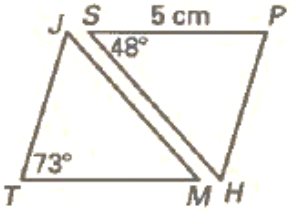


20. Can you prove the below triangles are congruent? Justify your answer.

[21-26] In the diagram, $\triangle TJM \cong \triangle PHS$. Complete the statement.

21. $\angle P \cong$ ____

22. $\overline{JM} \cong$ ____



23. $m\angle M \cong$ ____

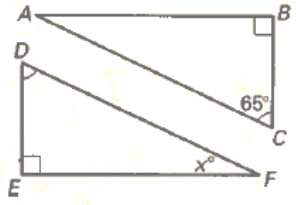
24. $m\angle P \cong$ ____

25. $\overline{MT} \cong$ ____

26. $\triangle HPS \cong$ ____

[27-28] Find the value of x.

27.



28.