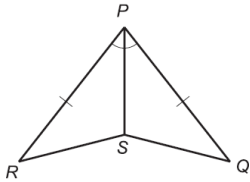


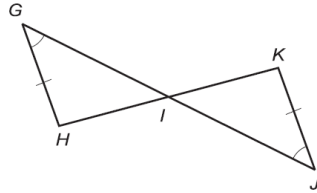
**UNIT 2 TEST REVIEW**

**Congruent Triangles:** Determine whether each pair of triangles are congruent (SSS, SAS, ASA, AAS, or HL). If not, write not congruent. If they are congruent, write a congruence statement.

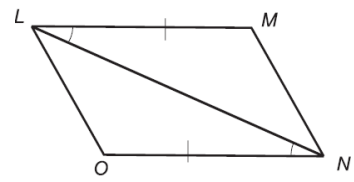
1.  $\Delta$  \_\_\_\_\_  $\cong$   $\Delta$  \_\_\_\_\_, by \_\_\_\_\_



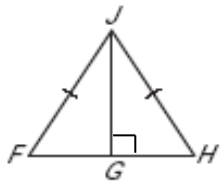
2.  $\Delta$  \_\_\_\_\_  $\cong$   $\Delta$  \_\_\_\_\_, by \_\_\_\_\_



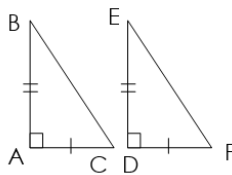
3.  $\Delta$  \_\_\_\_\_  $\cong$   $\Delta$  \_\_\_\_\_, by \_\_\_\_\_



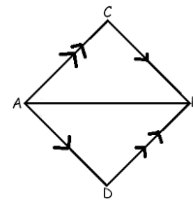
4.  $\Delta$  \_\_\_\_\_  $\cong$   $\Delta$  \_\_\_\_\_, by \_\_\_\_\_



5.  $\Delta$  \_\_\_\_\_  $\cong$   $\Delta$  \_\_\_\_\_, by \_\_\_\_\_

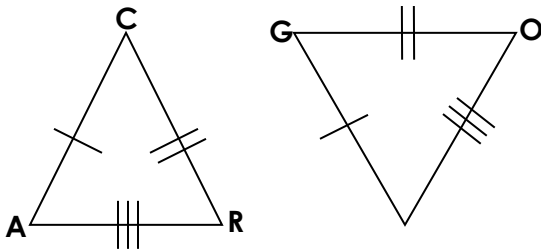


6.  $\Delta$  \_\_\_\_\_  $\cong$   $\Delta$  \_\_\_\_\_, by \_\_\_\_\_

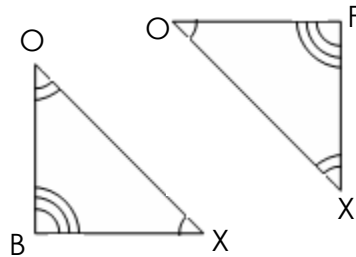


**Congruent Triangles:** Write the congruence statement for each pair of triangles.

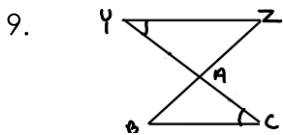
7.  $\Delta RAC \cong \Delta$  \_\_\_\_\_



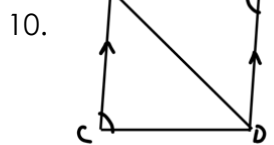
8.  $\Delta FOX \cong \Delta$  \_\_\_\_\_



**Proofs:** Complete the following proofs.



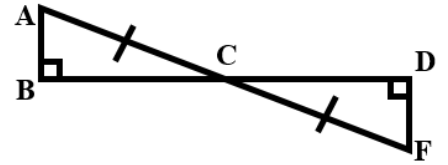
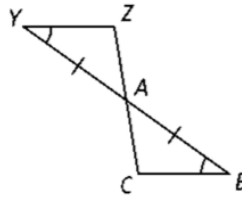
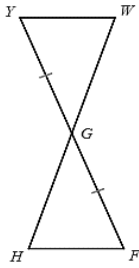
Statement	Reason
1. $\angle Y \cong \angle C$	1.
2. A is mdpt of $\overline{YC}$	2. Given
3.	3.
4.	4.
5. $\Delta YZA \cong \Delta CBA$	5.



Statement	Reason
1.	1.
2. $\overline{AC} \parallel \overline{BD}$	2.
3. $\angle CAD \cong \angle BDA$	3.
4.	4.
5. $\Delta ACD \cong \Delta$ _____	5.

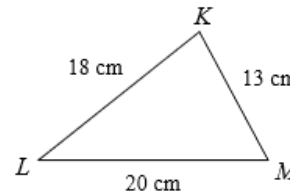
**Missing Information:** State what additional information (Sides or Angles) is required to know that the triangles are congruent for the reason given. **Hint: Mark the drawing!**

11. ASA; \_\_\_\_\_  $\cong$  \_\_\_\_\_ 12. AAS; \_\_\_\_\_  $\cong$  \_\_\_\_\_ 13. HL; \_\_\_\_\_  $\cong$  \_\_\_\_\_



**Triangle Theorems:** Use your knowledge of triangle theorems to complete the following.

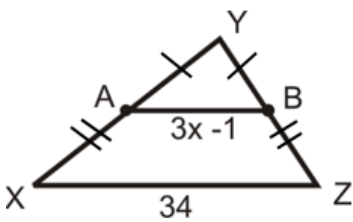
14. List the angles from smallest to biggest.



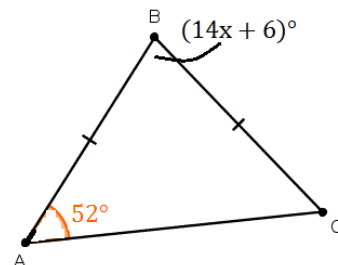
15. Show how you know that the following lengths can make a triangle: 9, 14, 22.

**Free Response:** Solve. Show all work.

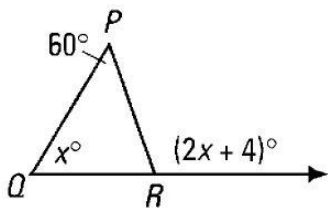
16. Find the value of  $x$ .



17. Solve for  $x$ .



18. Solve for  $x$ .



19. Find the missing segment.

