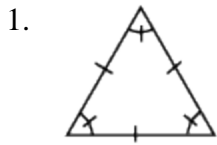


**Chapter 5 Test Review**

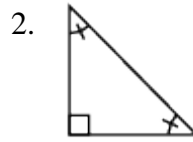
Name: \_\_\_\_\_ Period: \_\_\_\_\_

**Classify each triangle by its sides and by the measure of its angles.**



Classified by sides: \_\_\_\_\_

Classified by angles: \_\_\_\_\_



Classified by sides: \_\_\_\_\_

Classified by angles: \_\_\_\_\_

**What can you conclude from the given statement? Provide a reason why.**

3.  $\overline{CB}$  bisects  $\angle ACD$ , so \_\_\_\_\_  $\cong$  \_\_\_\_\_ because \_\_\_\_\_.

4.  $\overline{XY}$  bisects  $\overline{ZW}$  at point A, so \_\_\_\_\_  $\cong$  \_\_\_\_\_ because \_\_\_\_\_.

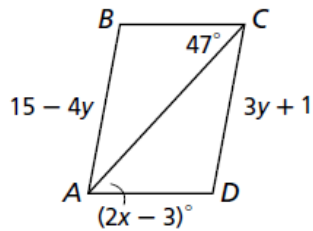
5.  $\angle 1 \cong \angle 2$  so \_\_\_\_\_  $\parallel$  \_\_\_\_\_ because \_\_\_\_\_.

6. Given:  $\triangle PQR \cong \triangle XYZ$ . Identify the congruent corresponding parts. (Hint: Letter order matters!)

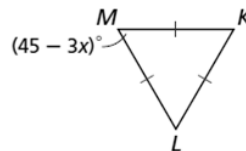
a.  $\overline{PR} \cong$  \_\_\_\_\_

b.  $\angle RPQ \cong \angle$  \_\_\_\_\_

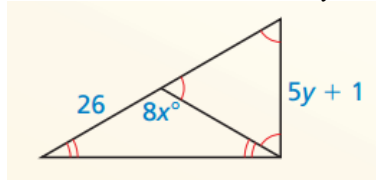
7. Given:  $\triangle ABC \cong \triangle CDA$ . Find  $x$  and  $y$ .



8. Find the value of  $x$ .



9. Find the values of  $x$  and  $y$  in the diagram.



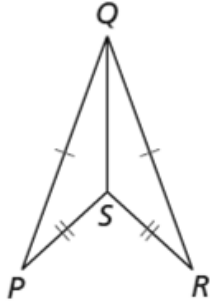
10. A rectangle has vertices at  $(0, 0)$ ,  $(r, 0)$ , and  $(0, k)$ . Find the coordinates of the 4<sup>th</sup> vertex.

11. Place an isosceles triangle in the coordinate plane in a way that is convenient for finding side lengths. Assign coordinates (as variables!) to each vertex.

12. Write a two-column proof.

Given:  $\overline{PQ} \cong \overline{RQ}$ ,  
 $\overline{PS} \cong \overline{RS}$

Prove:  $\angle PQS \cong \angle RQS$

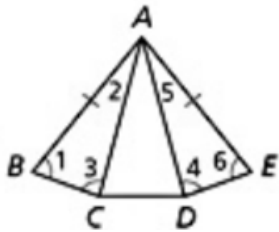


Statements	Reasons

13. Write a two-column proof.

Given:  $\angle 1 \cong \angle 6$ ,  $\angle 4 \cong \angle 6$   
 $\angle 1 \cong \angle 3$ ,  $\overline{AB} \cong \overline{AE}$

Prove:  $\overline{AC} \cong \overline{AD}$



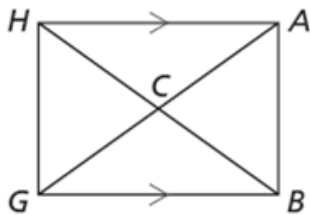
Statements	Reasons

14. Write a two-column proof.

Given: C is the midpoint  
of  $\overline{AG}$ .

$\overline{HA} \parallel \overline{GB}$

Prove:  $\triangle HAC \cong \triangle BGC$



Statements	Reasons