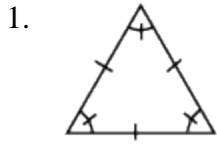


Chapter 5 Test Review

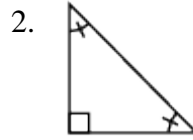
Name: _____ Period: _____

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 \angle _____ \cong \angle _____ because _____.

4. \overline{XA} bisects \overline{ZW} at point A, so _____ \cong _____ because _____.

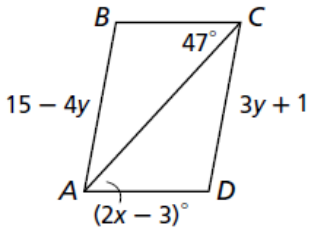
5. M is the midpoint of \overline{OK} , so _____ \cong _____ because _____.

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

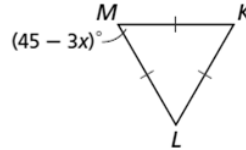
a. $\overline{PR} \cong$ _____

b. $\angle RPQ \cong \angle$ _____

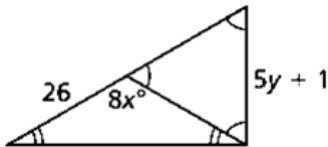
7. Given: $\triangle ABC \cong \triangle CDA$. Find x and y .



8. Find the value of x .



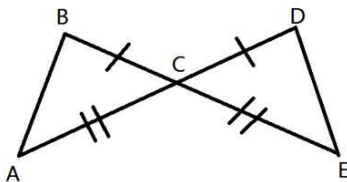
9. Find the values of x and y in the diagram.



For #10 & 11, name the additional side or angle that needs to be congruent in order to prove congruent triangles by each method. (Hint: Letter order matters!!)

10. Prove $\triangle ABC \cong \triangle EDC$

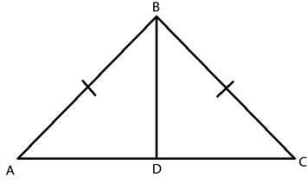
(Note: $\angle B$ and $\angle D$ are not right angles)



a. To prove by SSS \cong , we need _____ \cong _____

b. To prove by SAS \cong , we need \angle _____ \cong \angle _____

11. Prove $\triangle ABD \cong \triangle CBD$



(Note: $\angle D$ is not a right angle)

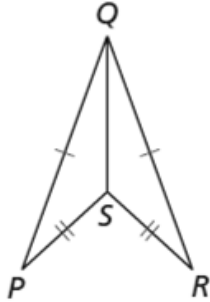
a. To prove by SAA \cong , we need \angle _____ \cong \angle _____

b. To prove by ASA \cong , we need \angle _____ \cong \angle _____

10. Write a two-column proof.

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

Prove: $\triangle PQS \cong \triangle RQS$

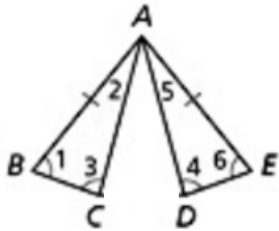


Statements	Reasons
1.	1.
2.	2.
3.	3.

11. 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
1.	1.
2.	2.
3.	3.