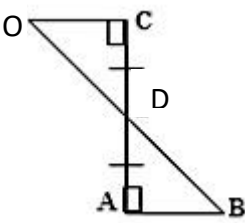
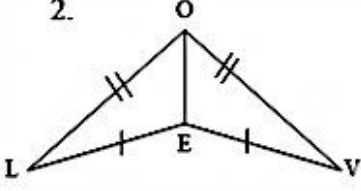
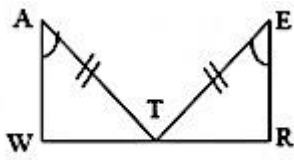
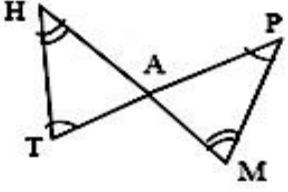
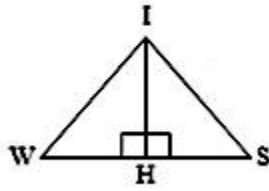
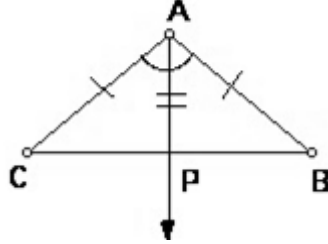
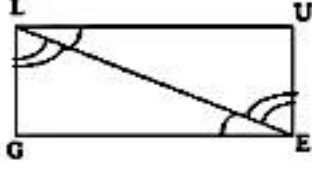
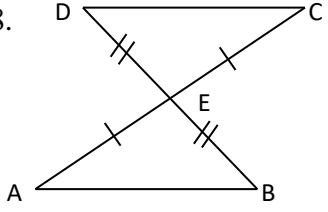
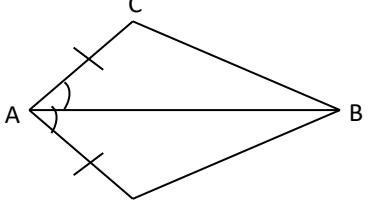


11C SSS, SAS, ASA and AAS

Name: _____ Per: _____

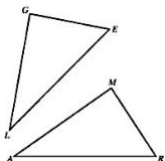
SHOW YOUR WORK AND WORK IN PENCIL

For each pair of triangles, tell which theorem (SSS, SAS, ASA or AAS), **if any**, makes the triangles **congruent**. Complete the triangle statement, if congruent. If the triangles are NOT congruent, **explain** why.

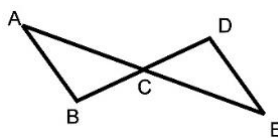
<p>1.</p>  <p>Congruent: YES / NO Theorem: _____ $\triangle DCO \cong \triangle$ _____</p>	<p>2.</p>  <p>Congruent: YES / NO Theorem: _____ $\triangle VOE \cong \triangle$ _____</p>	<p>3.</p>  <p>Congruent: YES / NO Theorem: _____ $\triangle TAW \cong \triangle$ _____</p>
<p>4.</p>  <p>Congruent: YES / NO Theorem: _____ $\triangle HAT \cong \triangle$ _____</p>	<p>5. Given: \vec{IH} Bisects $\angle WIS$</p>  <p>Congruent: YES / NO Theorem: _____ $\triangle HIS \cong \triangle$ _____</p>	<p>6.</p>  <p>Congruent: YES / NO Theorem: _____ $\triangle CAP \cong \triangle$ _____</p>
<p>7.</p>  <p>Congruent: YES / NO Theorem: _____ $\triangle GLE \cong \triangle$ _____</p>	<p>8.</p>  <p>Congruent: YES / NO Theorem: _____ $\triangle ABE \cong \triangle$ _____</p>	<p>9.</p>  <p>Congruent: YES / NO Theorem: _____ $\triangle ADB \cong \triangle$ _____</p>

10. **Mark** the specified parts to show the pair of triangles are congruent by the given theorem.

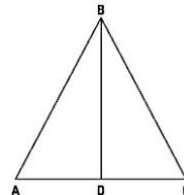
a. Angle-Side-Angle (ASA)



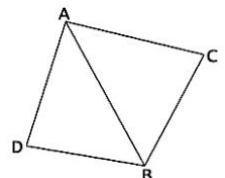
b. Angle-Angle-Side (AAS)



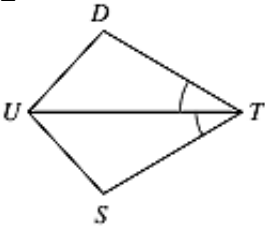
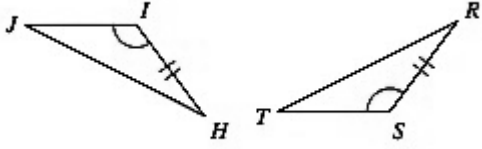
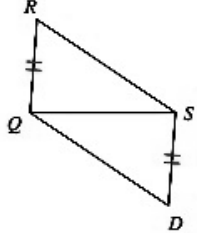
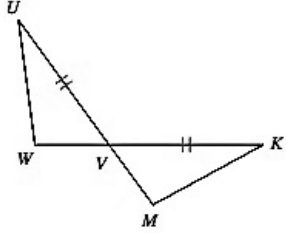
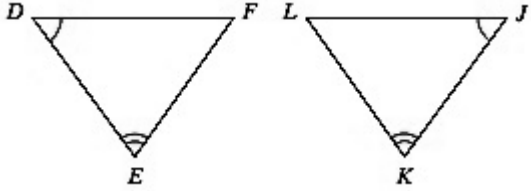
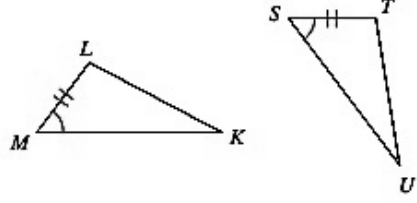
c. Side-Side-Side (SSS)



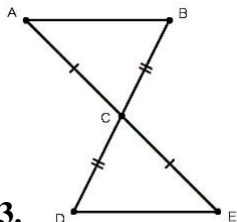
d. Side-Angle-Side (SAS)



11. Mark on the **triangles ONE additional set of side/angle needed to prove congruence** for the theorem given. (Don't forget reflexive properties and vertical angles-don't need to be marked.)

<p>a. ASA</p> 	<p>b. SAS</p> 	<p>c. SSS</p> 
<p>d. SAS</p> 	<p>e. ASA</p> 	<p>f. AAS</p> 

12. Fill in the blanks for the following proof.

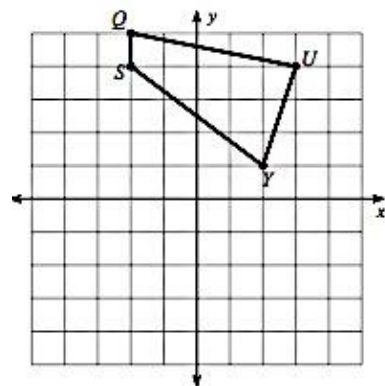


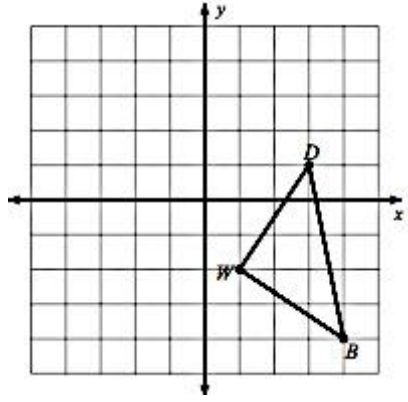
Given : $\overline{AC} \cong \overline{EC}$
 $\overline{BC} \cong \overline{DC}$
Prove : $\triangle ABC \cong \triangle EDC$

Statement (I know)	Reason (Because)
$\overline{AC} \cong \overline{EC}$	
	Given
$\angle ACB \cong \angle \underline{\hspace{2cm}}$	
$\triangle \underline{\hspace{2cm}} \cong \triangle EDC$	By <u> </u> Theorem

13. Calculate the perimeter of each polygon exactly and then estimate it to the nearest tenth. SYW.

- a.
- QS = _____
- SY = _____
- QU = _____
- UY = _____
- TOTAL: _____
- and _____



- b.
- 

Extra Credit: Find the area of each polygon above.

14. Use the following table:

- a. Find the line of regression _____
- b. What is the correlation coefficient? _____

X	1	3	10	16	26	36
Y	42	50	75	100	150	200