## 4-2 Triangle Congruence by SSS and SAS Notes



State if the two triangles are congruent. If they are, state how you know.





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Name \_\_\_\_\_



## **Common Ways to Prove Segments Congruent**



## 4-3 Triangle Congruence by ASA and AAS Notes



Write a congruence statement for the two triangles that could be proven congruent by <u>ASA</u>.







Are the following pairs of triangles congruent? If so, state the theorem or postulate you would use to prove them congruent.



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## State the third congruence that must be given to prove that $\triangle ABC \cong \triangle XYZ$ , using the indicated postulate or theorem.

<b>4.</b> Given: $\angle A \cong \angle X$	5. Given: $\angle A \cong \angle X$	6. Given: $\angle C \cong \angle Z$
$\angle B \cong \angle Y$	$\overline{AB} \cong \overline{XY}$	$\overline{BC} \cong \overline{YZ}$
Method: AAS Congruence	Method: ASA Congruence	Method: AAS
Theorem	Postulate	Congruence
		Theorem

Is it possible to prove that the triangles are congruent? If so, state the postulate or theorem you would use. Explain your reasoning.

