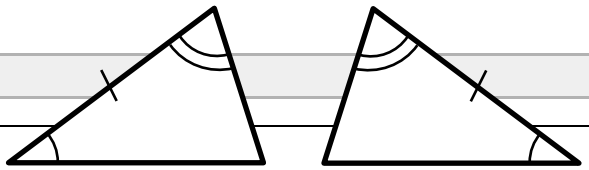
Geometry

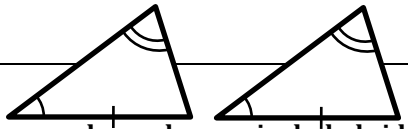
5.6 Proving Triangles Congruent by ASA and AAS

ASA and AAS



ASA (_____ Congruence Postulate)

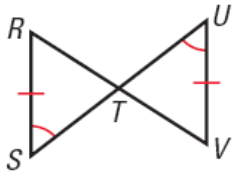
If two angles and the included side of one triangle are congruent to two angles and the included side of another triangle, then the two triangles are congruent



AAS (_____ Congruence Theorem)

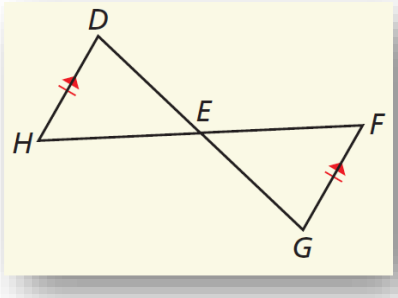
If two angles and a non-included side of one triangle are congruent to two angles and a non-included side of another triangle, then the two triangles are congruent

In the diagram, what postulate or theorem can you use to prove that ΔRST ≅ ΔVUT?



Given: $\overline{DH} \parallel \overline{GF}, \overline{DH} \cong \overline{GF}$

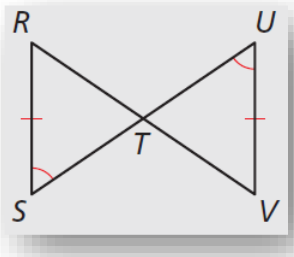
Prove: $\triangle DEH \cong \triangle GEF$



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

Given: $\overline{RS} \cong \overline{VU}, \angle S \cong \angle U$

Prove: $\triangle RST \cong \triangle VUT$



Statements	Reasons
1.	1.
2.	2.
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Assignment: 264 #2, 4, 6, 8, 12, 14, 16, 22, 24, 28, 35, 38, 39, 40, 41 = 15 total