Right Triangles
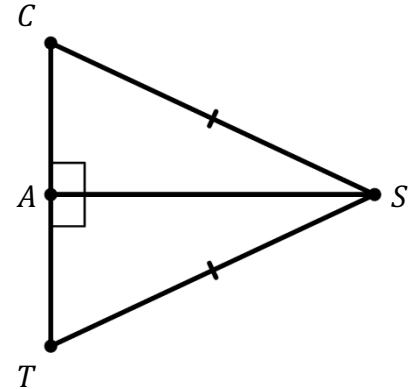**Proving Right Triangles Congruent**
Independent Practice

1. Use the diagram to prove that $\Delta CAS \cong TAS$.
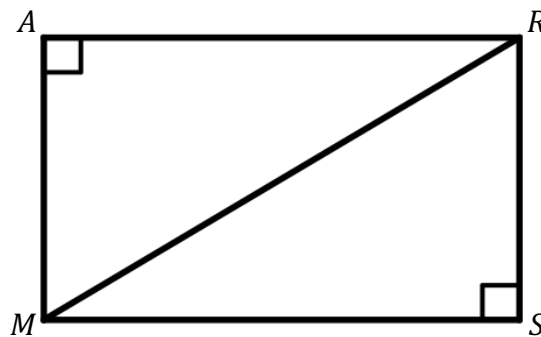
    Given: $\overline{CS} \cong \overline{ST}$ and $m\angle CAS = m\angle TAS = 90°$
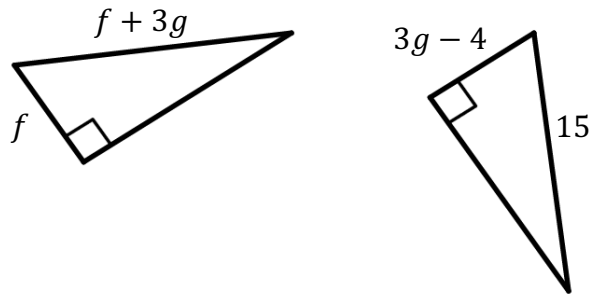   **Prove:** $\triangle CAS \cong \triangle TAS$

Statement	Reason
1.	**1.**
2.	**2.**
3.	**3.**
4.	**4.**
5.	**5.**
6.	**6.**

2. Determine the congruence information that is needed to show that the two triangles are congruent by the HL Theorem in two different ways.
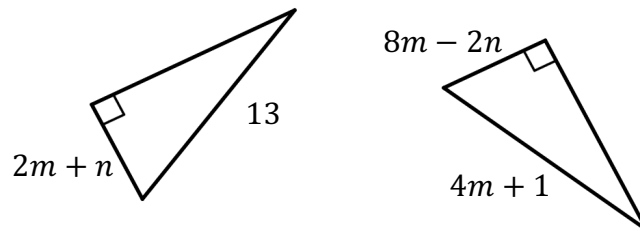
3. Consider the following diagram.

Find the values of f and g that prove the two triangles congruent by the HL Theorem.

4. Consider the following diagram.

Find the values of m and n that prove the two triangles congruent by the HL Theorem.