

4-4

Using Corresponding Parts of Congruent Triangles

Content Standards
G.SRT.5 Use congruence . . . criteria for triangles to solve problems and prove relationships in geometric figures.
 Also G.CO.12

Objective To use triangle congruence and corresponding parts of congruent triangles to prove that parts of two triangles are congruent

Essential Understanding If you know two triangles are congruent, then you know that every pair of their corresponding parts is also congruent.

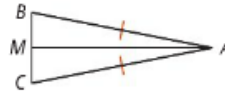
Got It? 1. **Given:** $\overline{BA} \cong \overline{DA}$, $\overline{CA} \cong \overline{EA}$
Prove: $\angle C \cong \angle E$





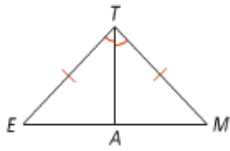
Got It? 2. a. **Given:** $\overline{AB} \cong \overline{AC}$, M is the midpoint of \overline{BC}

Prove: $\angle AMB \cong \angle AMC$



Name the postulate or theorem that you can use to show the triangles are congruent. Then explain why the statement is true.

1. $\overline{EA} \cong \overline{MA}$



2. $\angle U \cong \angle E$

