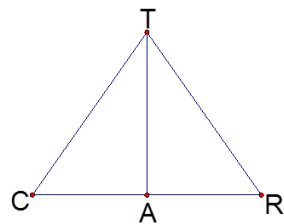


6. Write a proof.

**Given:**  $\triangle CTR$  is isosceles with base  $\overline{CR}$   
A is the midpoint of  $\overline{CR}$   
**Prove:**  $\triangle CAT \cong \triangle RAT$



| Statements                                                                                     | Reasons                       |
|------------------------------------------------------------------------------------------------|-------------------------------|
| $\triangle CTR$ is isosceles with base $\overline{CR}$<br>A is the midpoint of $\overline{CR}$ | Given                         |
| $\overline{CT} \cong \overline{RT}$                                                            | Def. of an isosceles triangle |
| $\overline{CA} \cong \overline{RA}$                                                            | Def. of a midpoint            |
| $\angle C \cong \angle R$                                                                      | Base Angles Theorem           |
| $\triangle CAT \cong \triangle RAT$                                                            | SAS $\cong$                   |