

GEOMETRY HONORS

date KEY

RIGHT ANGLE THEOREM

If two angles are right angles, then they are congruent.

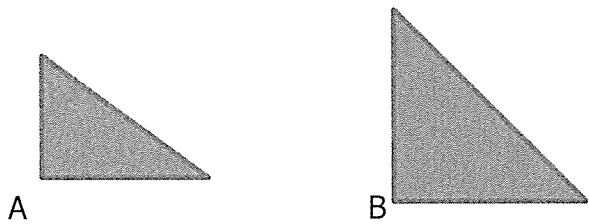
OR

Right angles are congruent.

PROOF:

Given:  $\angle A$  is a right angle.  
 $\angle B$  is a right angle.

Prove:  $\angle A \cong \angle B$



$$\begin{aligned} \textcircled{1} \left. \begin{array}{l} \angle A \text{ is a right } \angle. \\ \angle B \text{ is a right } \angle. \end{array} \right\} &\rightarrow \textcircled{2} \left. \begin{array}{l} m\angle A = 90 \\ m\angle B = 90 \end{array} \right\} \rightarrow \textcircled{3} m\angle A = m\angle B \rightarrow \textcircled{4} \angle A \cong \angle B \end{aligned}$$

- ① Given
- ② Def of right  $\angle$ .
- ③ Substitution Prop
- ④ Def of congruent  $\angle$ s