

## EXERCISE SET

Copy the diagrams onto your paper and mark them with the given information.

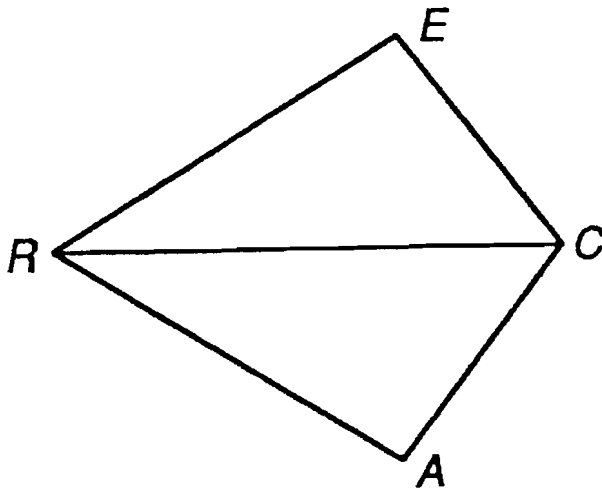
Provide a short argument that demonstrates whether or not the segments or angles indicated are congruent. If it is necessary to show that two triangles are congruent, then state which triangles are congruent and which shortcut conjecture (SSS, SAS, ASA, or SAA) proves them congruent.

1.\*  $\overline{AR} \cong \overline{ER}$

$$\overline{EC} \cong \overline{CA}$$

Is  $\angle E \cong \angle A$ ?

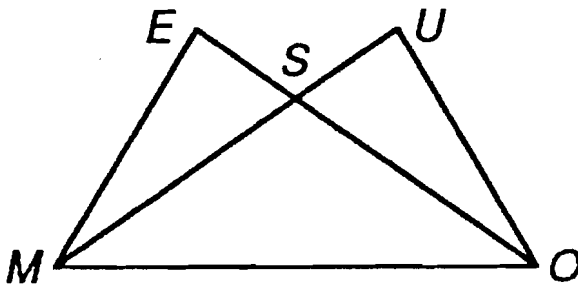
Why?



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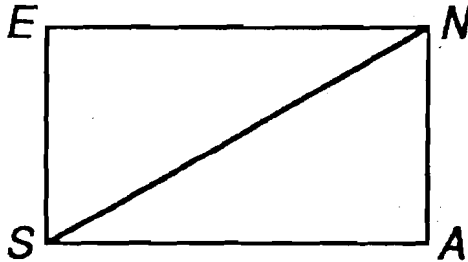
2.  $\overline{SE} \cong \overline{SU}$   
 $\angle E \cong \angle U$   
Is  $\overline{MS} \cong \overline{OS}$ ?  
Why?



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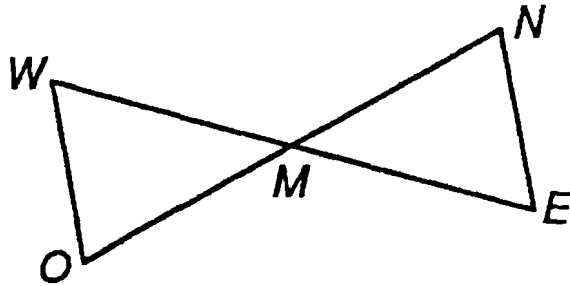
- 3.\*  $\overline{SA} \parallel \overline{NE}$   
 $\overline{SE} \parallel \overline{NA}$   
Is  $\overline{SA} \cong \overline{NE}$ ?  
Why?



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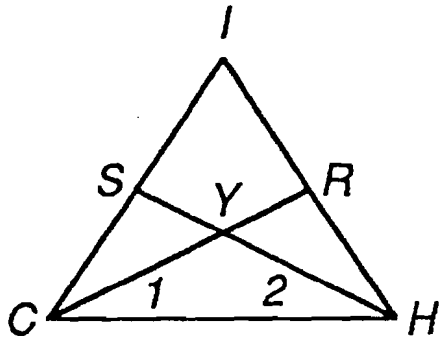
4.  $\angle E \cong \angle W$   
 $M$  is the midpoint  
of  $\overline{WE}$ .  
Is  $\overline{MO} \cong \overline{MN}$ ? Why?



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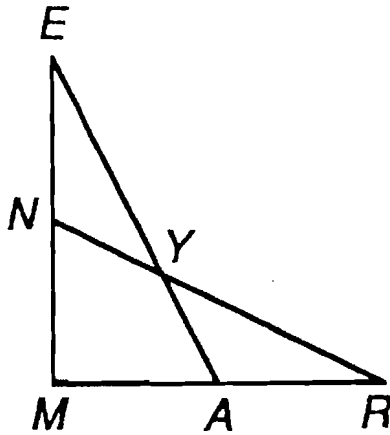
- 5.\*  $\overline{CS} \cong \overline{HR}$   
 $\angle 1 \cong \angle 2$   
Is  $\overline{CR} \cong \overline{HS}$ ? Why?



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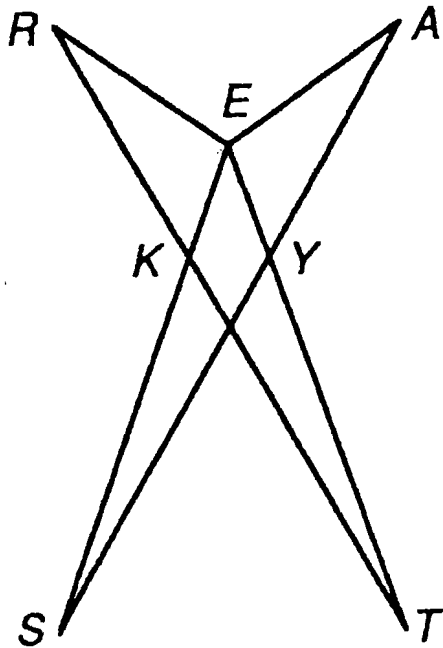
6.  $\overline{MN} \cong \overline{MA}$   
 $\overline{ME} \cong \overline{MR}$   
Is  $\angle E \cong \angle R$ ? Why?



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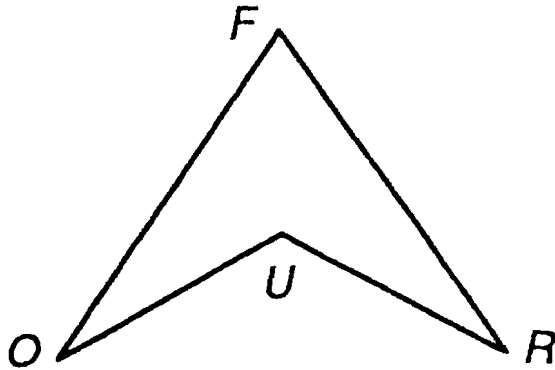
7.  $\angle S \cong \angle T$   
 $\angle R \cong \angle A$   
 $\overline{RE} \cong \overline{AE}$   
Is  $\overline{RT} \cong \overline{SA}$ ? Why?



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- 8.\*  $\overline{FO} \cong \overline{FR}$   
 $\overline{OU} \cong \overline{UR}$   
Is  $\angle O \cong \angle R$ ? Why?





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$$9.* \quad \overline{BT} \cong \overline{UE}$$
$$\overline{BU} \cong \overline{TE}$$

Is  $\angle B \cong \angle E$ ? Why?

