

# GEOMETRY

WS H-L

NAME \_\_\_\_\_

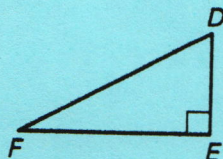
Period \_\_\_\_\_

Tell whether the segment is a *leg* or the *hypotenuse* of the right triangle.

1.  $\overline{FE}$

2.  $\overline{ED}$

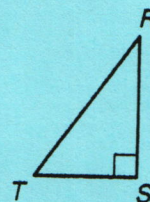
3.  $\overline{FD}$



4.  $\overline{RT}$

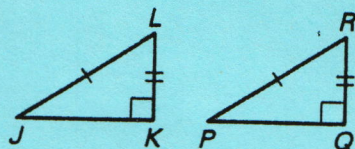
5.  $\overline{RS}$

6.  $\overline{TS}$

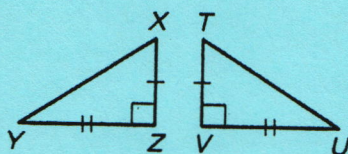


Determine whether you can use the HL Congruence Theorem to show that the triangles are congruent. Explain your reasoning.

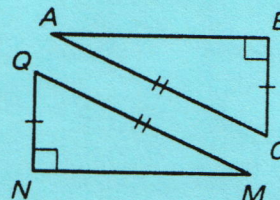
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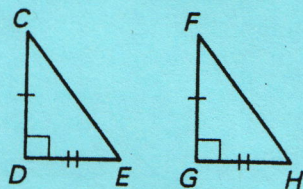
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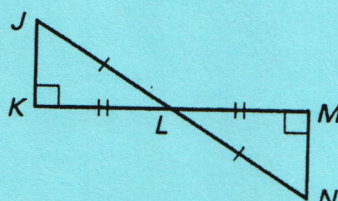
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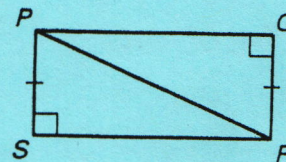
10.



11.

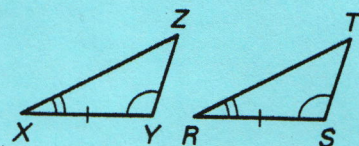


12.

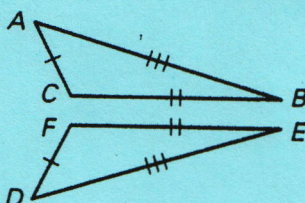


Decide whether enough information is given to show that the triangles are congruent. If so, state the postulate or theorem you would use.

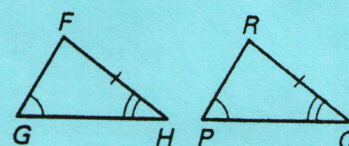
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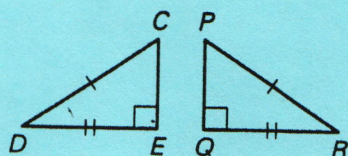
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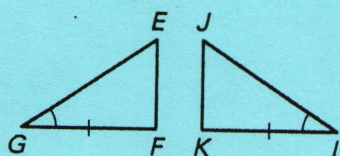
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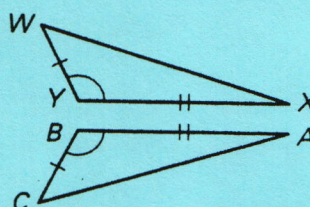
16.



17.



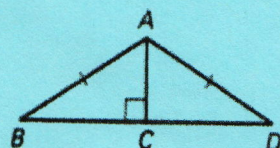
18.



Given:

$\angle ACB$  and  $\angle ACD$  are right angles.

$\overline{AB} \cong \overline{AD}$



Prove:  $\triangle ABC \cong \triangle ADC$

Statements

Reasons

1.  $\angle ACB$  and  $\angle ACD$  are right  $\angle$ .

1. \_\_\_\_\_?

2. \_\_\_\_\_?

2. Definition of right triangles

3. \_\_\_\_\_?

3. Given

4.  $\overline{AC} \cong \overline{AC}$

4. \_\_\_\_\_?

5.  $\triangle ABC \cong \triangle ADC$

5. \_\_\_\_\_?