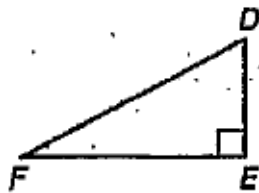
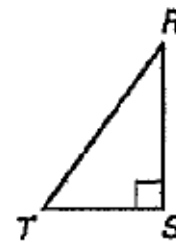


Tell whether the segment is a *leg* or the *hypotenuse* of the right triangle.

1. \overline{FE}
2. \overline{ED}
3. \overline{FD}

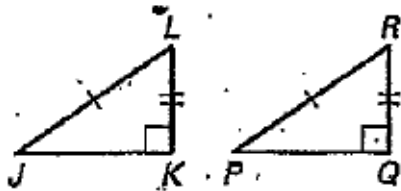


4. \overline{RT}
5. \overline{RS}
6. \overline{TS}

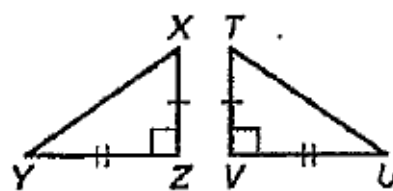


Determine whether you can use the HL Congruence Theorem to show that the triangles are congruent. Explain your reasoning.

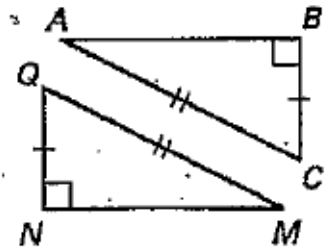
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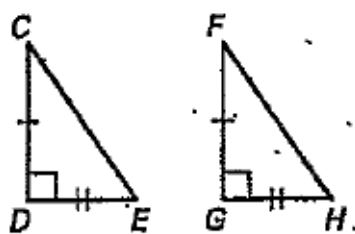
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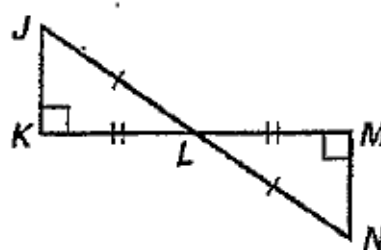
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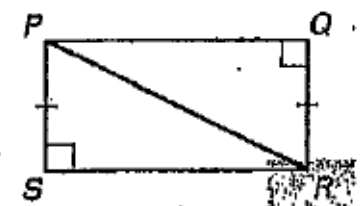
10.



11.

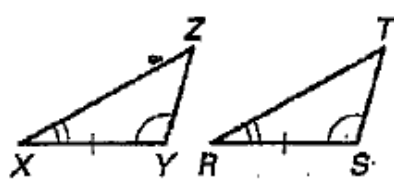


12.

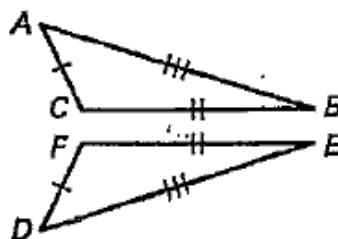


Decide whether enough information is given to show that the triangles are congruent. If so, state the postulate or theorem you would use.

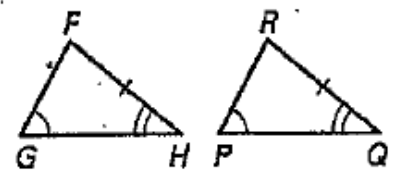
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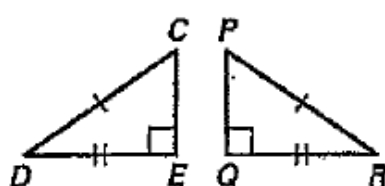
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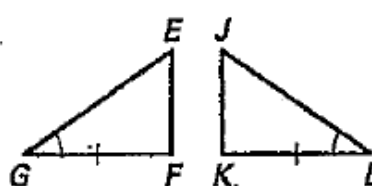
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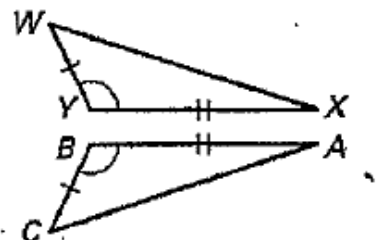
16.



17.



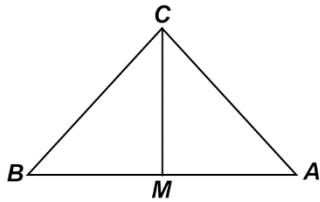
18.



Prove.

19. Given: $\overline{AC} \cong \overline{BC}$
 $\angle AMC$ and $\angle BMC$ are right angles.

Prove: $\triangle ACM \cong \triangle BCM$

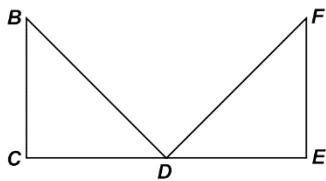


Statements

Reasons

20. Given: $\overline{BD} \cong \overline{FD}$
 D is the midpoint of \overline{CE}
 \overline{BC} and \overline{FE} are \perp to \overline{CE}

Prove: $\triangle BCD \cong \triangle FED$



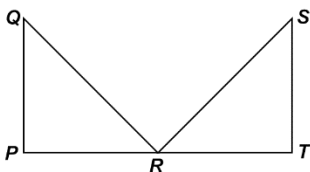
Statements

Reasons

21. Given: $\angle P$ and $\angle T$ are right angles.

\overline{QR} bisects \overline{PT}
 $\overline{QR} \cong \overline{SR}$

Prove: $\triangle QPR \cong \triangle STR$



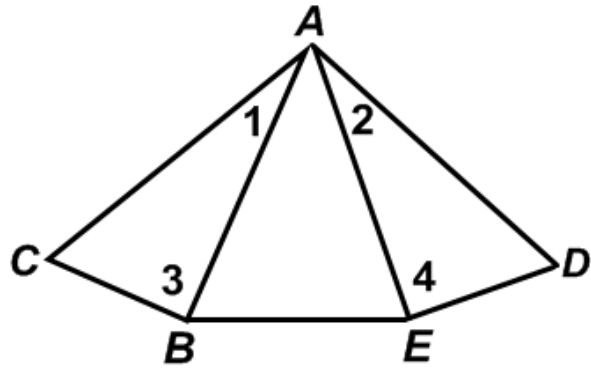
Statements

Reasons

Prove.

22. Given: $\overline{AB} \perp \overline{CB}$
 $\overline{AE} \perp \overline{DE}$
 $\angle 1 \cong \angle 2$
 $\angle ABE \cong \angle AEB$

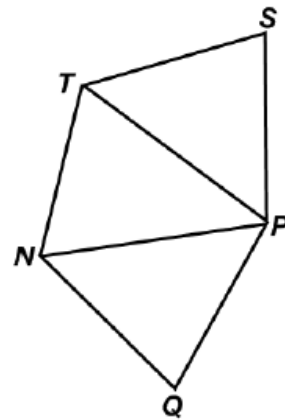
Prove: $\overline{AC} \cong \overline{AD}$



Statements	Reasons

23. Given: $\overline{ST} \cong \overline{QN}$
 $\angle S \cong \angle Q$
 $\overline{PS} \cong \overline{PQ}$

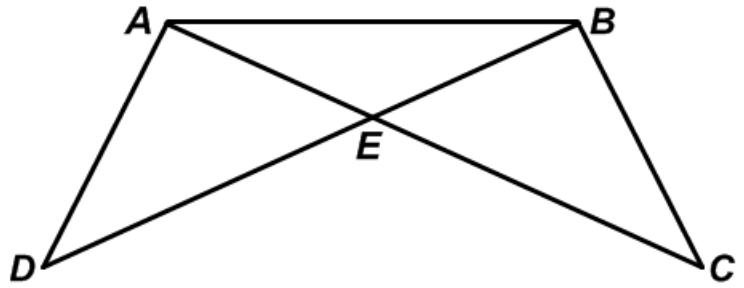
Prove: $\triangle TPN$ is an isosceles \triangle



Statements	Reasons

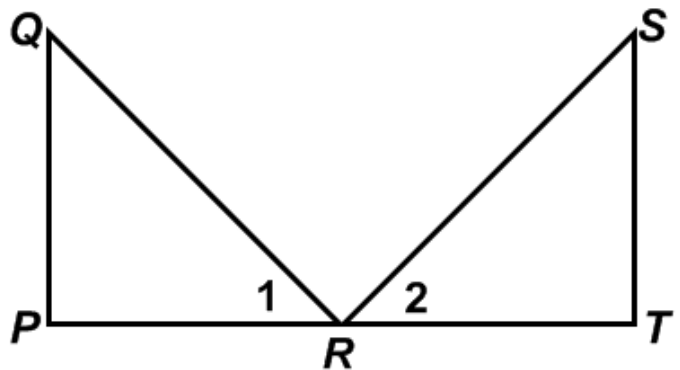
Prove.

24. Given: $\overline{BC} \cong \overline{AD}$
 $\overline{BD} \cong \overline{AC}$
Prove: $\angle ABD \cong \angle BAC$



Statements	Reasons

25. Given: $\angle 1 \cong \angle 2$
 R is the midpoint of \overline{PT}
 $\angle P$ is a right angle
 $\angle T$ is a right angle



Prove: $\overline{QR} \cong \overline{SR}$

Statements	Reasons