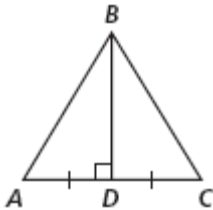


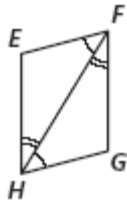
Practice 4-4 **Using Congruent Triangles: CPCTC**

Determine which triangles are congruent by SSS, SAS, ASA, or AAS. If there is not enough information, write *not possible*.

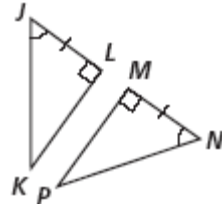
1.



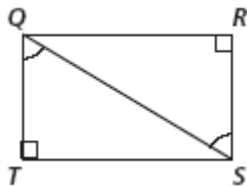
2.



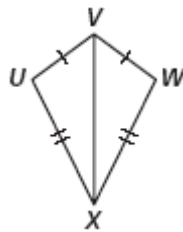
3.



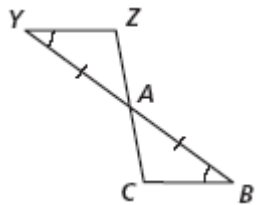
4.



5.



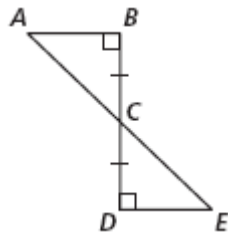
6.



Write a two-column Proof.

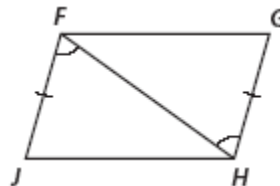
10. Given: $\overline{BD} \perp \overline{AB}$, $\overline{BD} \perp \overline{DE}$, $\overline{BC} \cong \overline{CD}$

Prove: $\angle A \cong \angle E$



11. Given: $\overline{FJ} \cong \overline{GH}$, $\angle JFH \cong \angle GHF$

Prove: $\overline{FG} \cong \overline{JH}$



Statements

Reasons

|

Statements

Reasons

|

Complete each statement.

10. $\overline{AF} \cong \underline{\hspace{1cm}} ?$

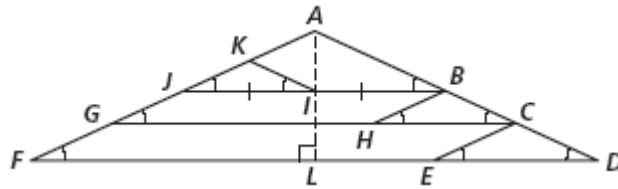
11. $\overline{CA} \cong \underline{\hspace{1cm}} ?$

12. $\overline{KI} \cong \underline{\hspace{1cm}} ?$

13. $\overline{EC} \cong \underline{\hspace{1cm}} ?$

14. $\overline{JA} \cong \underline{\hspace{1cm}} ?$

15. $\overline{HB} \cong \underline{\hspace{1cm}} ?$



Given $m\angle D = 25$, find the measure of each angle.

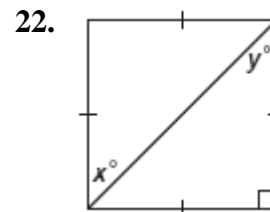
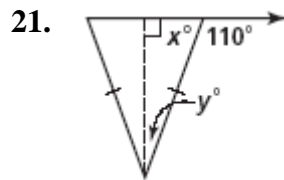
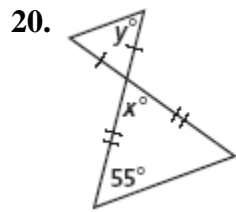
16. $\angle JAB$

17. $\angle FAL$

18. $\angle JKI$

19. $\angle DLA$

Find the values of x and y .



What additional information do you need to prove each pair of triangles congruent by the HL Theorem?

