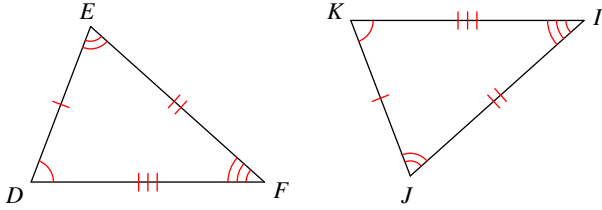


Congruence and Triangles

Date _____ Period _____

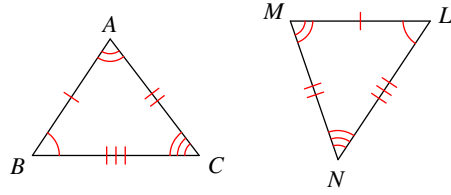
Complete each congruence statement by naming the corresponding angle or side.

1) $\triangle DEF \cong \triangle KJI$



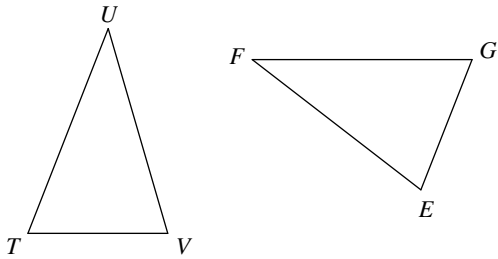
$\overline{FD} \cong ?$

2) $\triangle BAC \cong \triangle LMN$



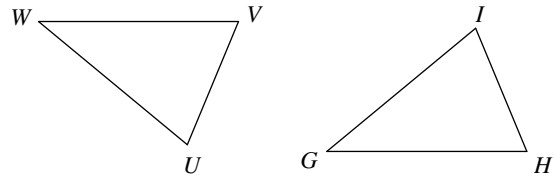
$\angle A \cong ?$

3) $\triangle TUV \cong \triangle GFE$



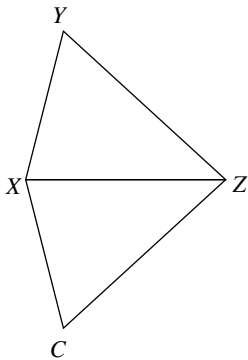
$\angle U \cong ?$

4) $\triangle WVU \cong \triangle GHI$



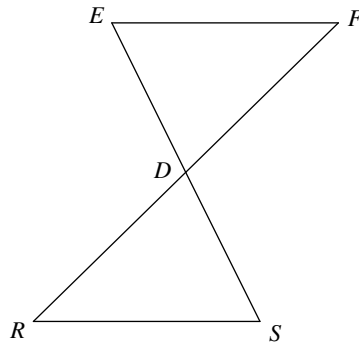
$\angle W \cong ?$

5) $\triangle ZXY \cong \triangle ZXC$



$\angle Y \cong ?$

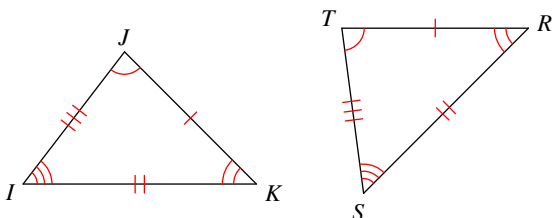
6) $\triangle DEF \cong \triangle DSR$



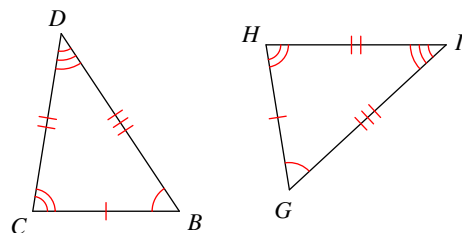
$\angle F \cong ?$

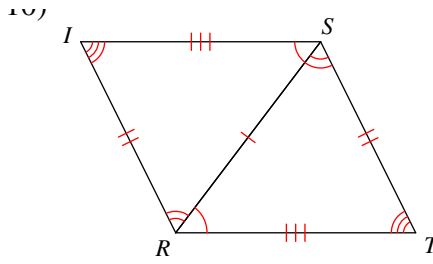
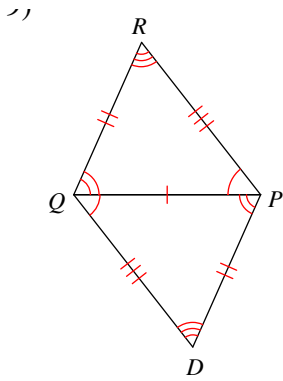
Write a statement that indicates that the triangles in each pair are congruent.

7)

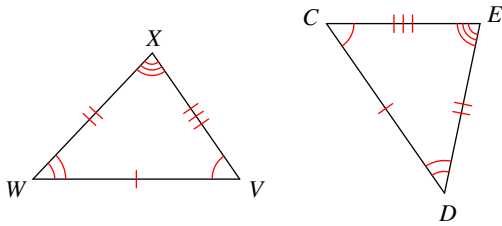


8)

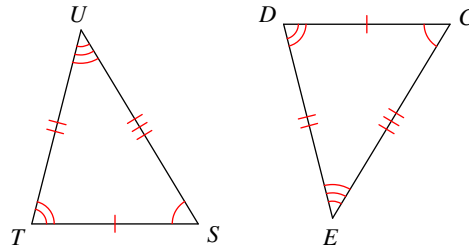




11)

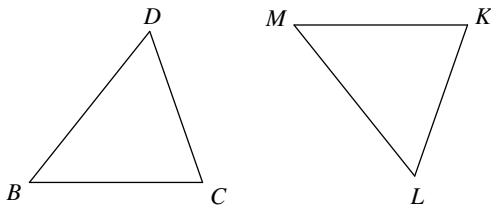


12)

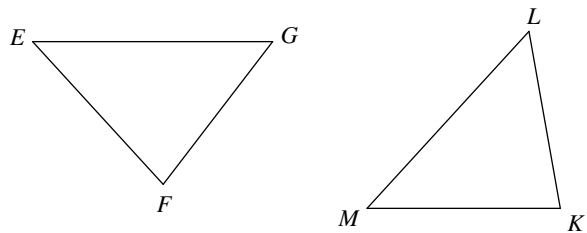


Mark the angles and sides of each pair of triangles to indicate that they are congruent.

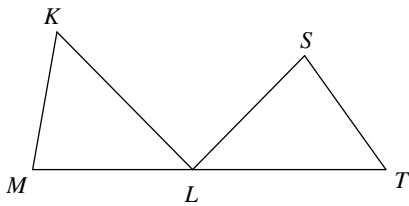
13) $\Delta BDC \cong \Delta MLK$



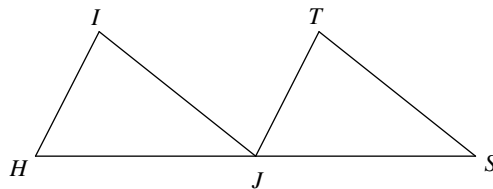
14) $\Delta GFE \cong \Delta LKM$



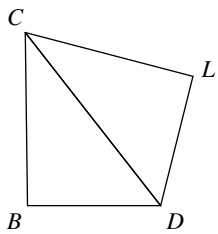
15) $\Delta MKL \cong \Delta STL$



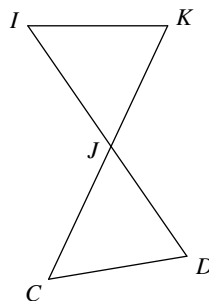
16) $\Delta HIJ \cong \Delta JTS$



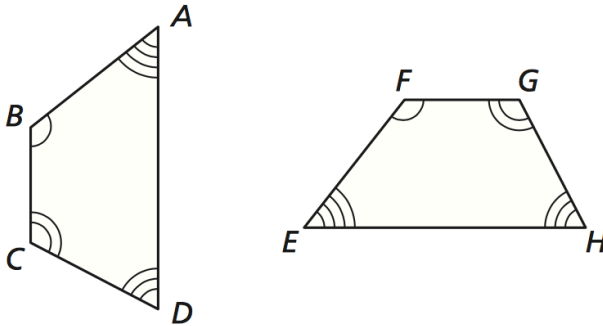
17) $\Delta CDB \cong \Delta CDL$



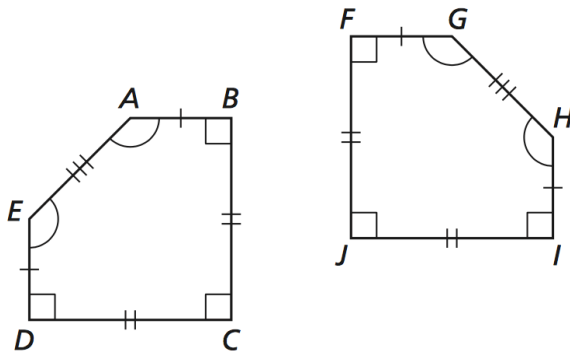
18) $\Delta JIK \cong \Delta JCD$



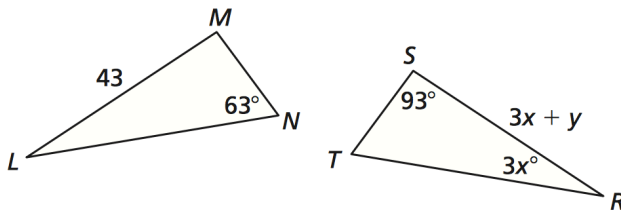
19. In the figure, $ABCD \cong EFGH$. Identify all pairs of congruent corresponding parts. Then write another congruence statement for the polygons.



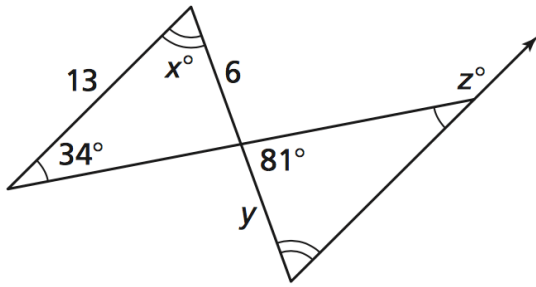
20. In the figure, $ABCDE \cong HIJFG$. Identify all pairs of congruent corresponding parts. Then complete the congruence statement: $ABCDE \cong G$ _____.



21. In the figure, $\triangle LMN \cong \triangle RST$. Find the values of x and y .



22. Find the values of x , y , and z .



23. Find $m\angle T$. Explain your reasoning.

