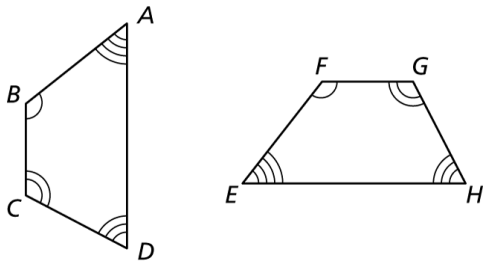
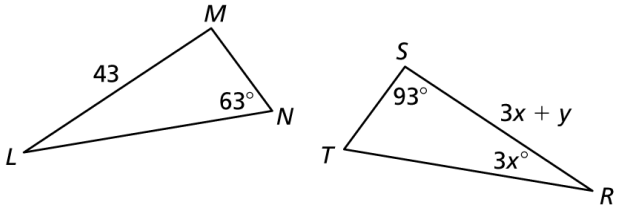
Name _____ Date _____

5.2 Practice A

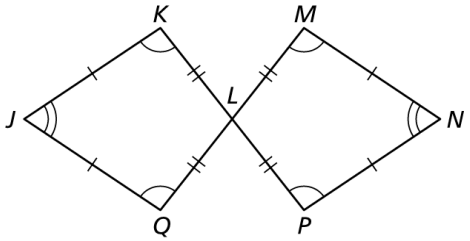
1. In the figure, $ABCD \cong EFGH$. Identify all pairs of congruent corresponding parts. Then write another congruence statement for the polygons.



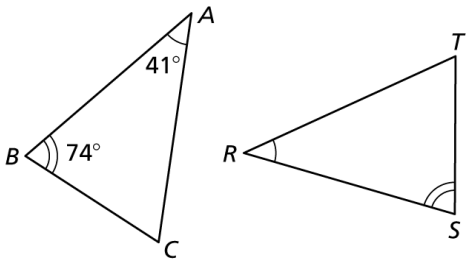
2. In the figure, $\triangle LMN \cong \triangle RST$. Find the values of x and y.



3. Show that the two quadrilaterals are congruent.



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

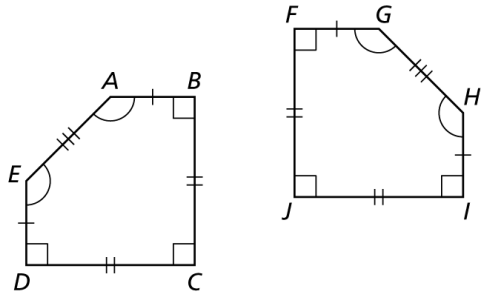


5. The congruence statements $\triangle ABC \cong \triangle DEF$, $\triangle ABC \cong \triangle EFD$, and $\triangle ABC \cong \triangle FDE$ are all valid. What must be true about $\triangle ABC$ and $\triangle DEF$?

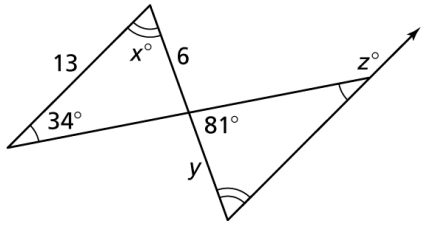
Name _____ Date _____

5.2 Practice B

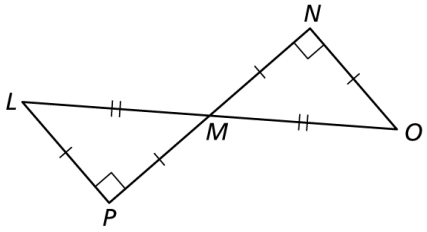
1. In the figure, $ABCDE \cong HIJFG$. Identify all pairs of congruent corresponding parts. Then complete the congruence statement: $ABCDE \cong G$_____.



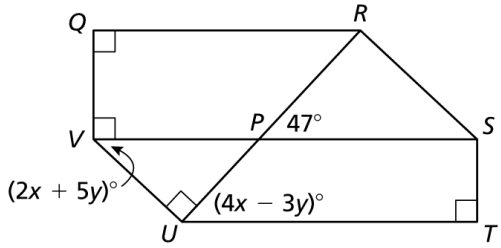
2. Find the values of x, y, and z.



3. Show that the two triangles are congruent.



4. In the figure, $RSTU \cong UVQR$. Find the values of x and y and $m\angle RST$. Explain your reasoning.



5. Draw a rectangle and label it $ABCD$. Draw diagonal $\overline{AC}$. Are the two triangles formed congruent? Explain.