

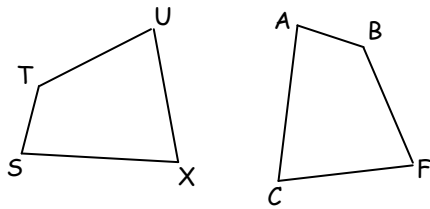
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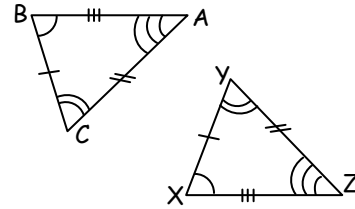
Congruence: Cumulative Review

Write a congruence statement.

1.

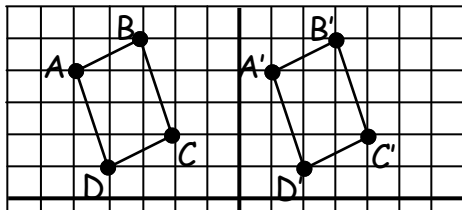


2.

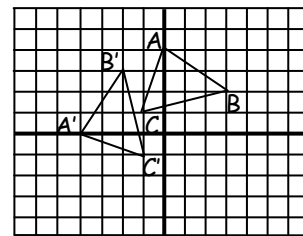


Describe the transformation.

3.

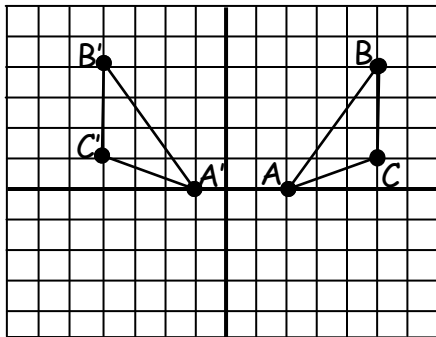


4.

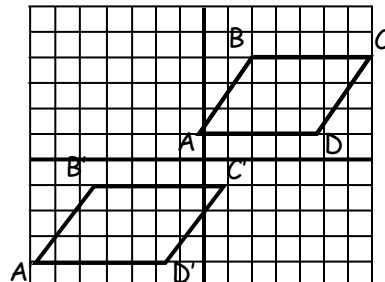


Determine whether the following represent a rigid transformation. Explain.

5.



6.



Determine the indicated angle measure(s).

7. $m\angle 2$ if $m\angle 3 = 64^\circ$

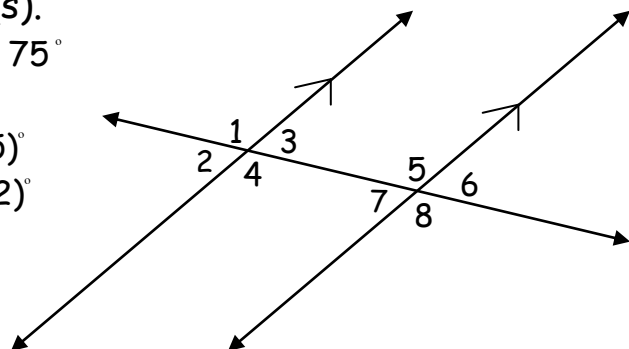
8. $m\angle 4$ if $m\angle 7 = 75^\circ$

9. $m\angle 6 = (3x + 2)^\circ$

10. $m\angle 2 = (x + 15)^\circ$

$m\angle 7 = (4x - 4)^\circ$

$m\angle 5 = (2x - 12)^\circ$



Name: _____

Date: _____

Answer Key

Congruence: Review

1. Polygon $STUX \cong$ Polygon $ABFC$
2. $\triangle ABC \cong \triangle ZXY$
3. $ABCD \rightarrow (X+6, Y)$
4. Rotation 90 degree left
5. Yes. Size and shape are retained. The corresponding lengths are congruent.
6. No. The lengths are not congruent.
7. $m\angle 2 = 64^\circ$
8. $m\angle 4 = 105^\circ$
9. $x = 6$; $m\angle 6 = m\angle 7 = 20^\circ$
10. $x = 59$; $m\angle 2 = 74$; $m\angle 5 = 106^\circ$