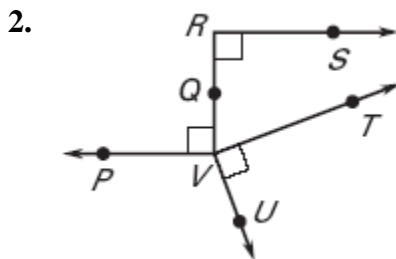
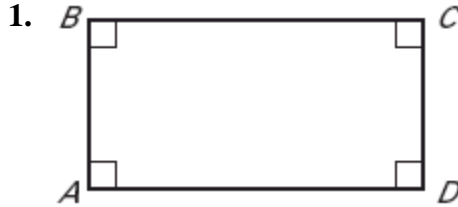


Name _____

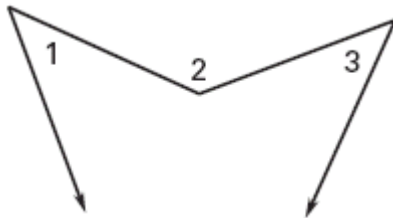
Date _____

Assignment 15 LESSON 2.7

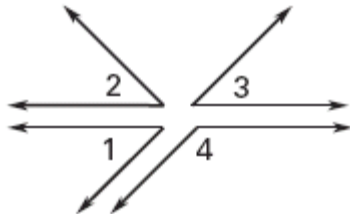
Identify the pair(s) of congruent angles in the figure. *Explain* how you know they are congruent.



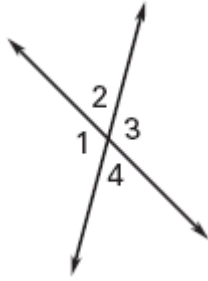
3. $\angle 1$ and $\angle 3$ are complementary.
 $\angle 1$ and $\angle 2$ are supplementary.
 $\angle 3$ and $\angle 2$ are supplementary.



4. $\angle 1$ and $\angle 2$ are complementary.
 $\angle 2$ and $\angle 3$ are complementary.
 $\angle 2$ and $\angle 4$ are supplementary.



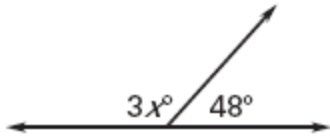
Use the diagram at the right.



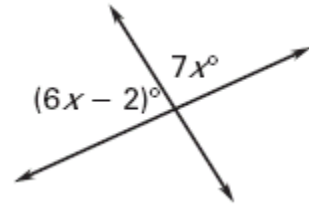
5. If $m\angle 1 = 115^\circ$, find $m\angle 2$, $m\angle 3$, and $m\angle 4$.
6. If $m\angle 2 = 64^\circ$, find $m\angle 1$, $m\angle 3$, and $m\angle 4$.
7. If $m\angle 3 = 112^\circ$, find $m\angle 1$, $m\angle 2$, and $m\angle 4$.
8. If $m\angle 4 = 67^\circ$, find $m\angle 1$, $m\angle 2$, and $m\angle 3$.

Find the value of x .

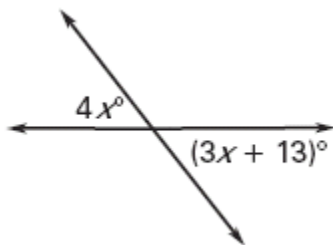
9.



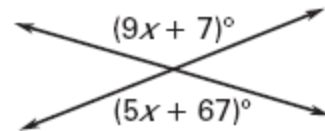
10.



11.



12.



In the diagram at the right, $m\angle 1 = 38^\circ$ and $m\angle 4 = 98^\circ$. Find the indicated angle measure.

13. Find $m\angle 3$.
14. Find $m\angle DGE$.
15. Find $m\angle CGE$.
16. Find $m\angle 2$.
17. Find $m\angle AGC$.

