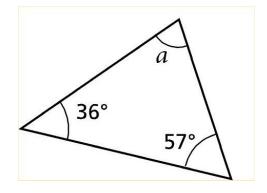
1. Do the following side lengths form a triangle? Explain how you know.

4 cm, 8 cm, 10 cm

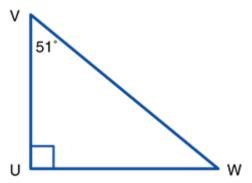
2. Do the following side lengths form a triangle? Explain how you know.

5 cm, 13 cm, 7 cm

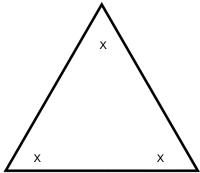
- 3. In class we learned about the angle sum theorem that explains that the three angles of a triangle always add up to the same number of degrees. How many degrees do the three angles of a triangle always add up to?
- 4. Find $m \angle a$.



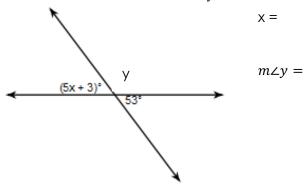
5. Find $m \angle VWU$.



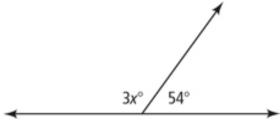
6. If each angle measures x degrees, what is the value of x? Write an equation and solve to find the value of x.



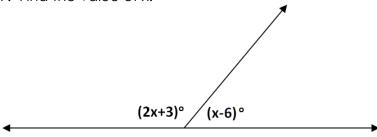
7. Find the value of x and $m \angle y$.



8. Find the value of x.



9. Find the value of x.



10. How is the relationship between supplementary angles similar to the angle sum theorem?