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.







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