

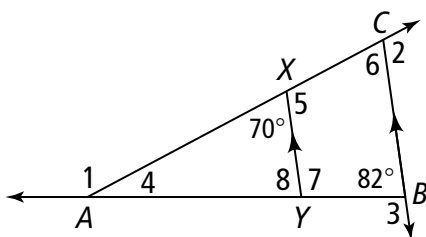
Close and Check

Focus Question

What is the relationship between the exterior and interior angles of a triangle?

Do you know HOW?

Use the diagram to solve Exercises 1–4.



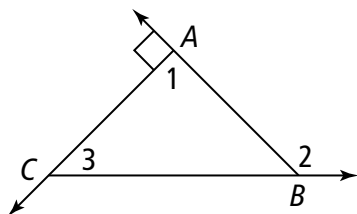
1. Find $m\angle 1$.

2. Find $m\angle 2$.

3. Find $m\angle 3$.

4. Find $m\angle 6$.

5. Given $m\angle 2 = 14x + 9$, and $m\angle 3 = 5x$, what is $m\angle 2$?



$m\angle 2 =$

Do you UNDERSTAND?

6. **Reasoning** How does the sum of the exterior angles of a triangle relate to the sum of the interior angles? Explain.

7. **Writing** Explain how you found the solution to Exercise 5.
