NAME:_____ Math _____, Period _____

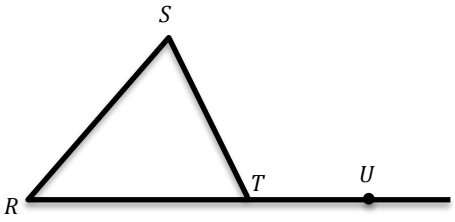
Mr. Rogove Date:_____

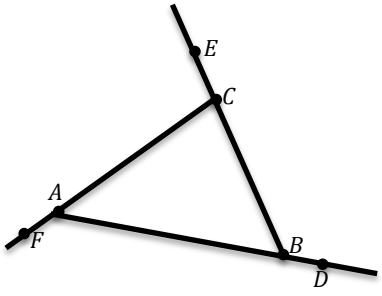
Learning Objective: We will use the angle sum theorem to find missing interior and exterior angles of triangles. (G8M2L11)

Concept Development:

The exterior angle of a triangle: This is formed when one of the sides of a triangle is extended. The interior angles of a triangle are inside and the **exterior angles are outside along the extended side.**

Examples:





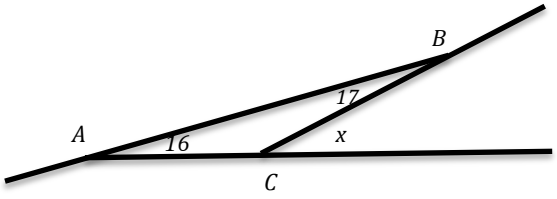
NAME:_____ Math ____, Period _____

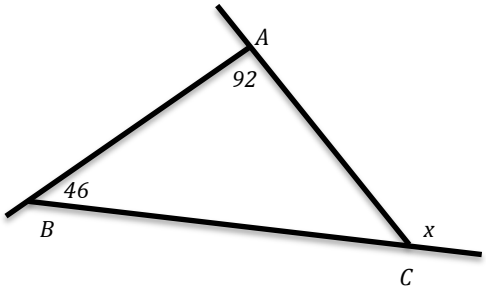
Mr. Rogove Date:_____

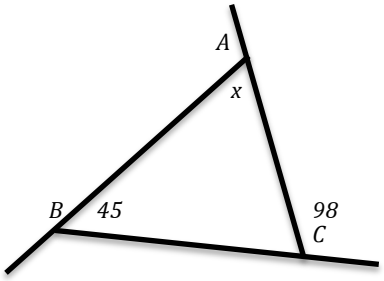
Guided Practice:

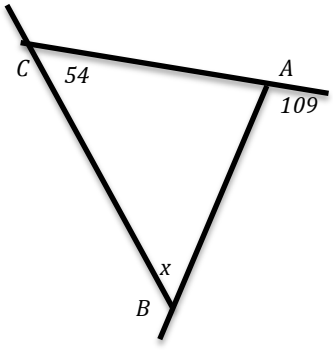
Steps for Finding Missing Angle Measures

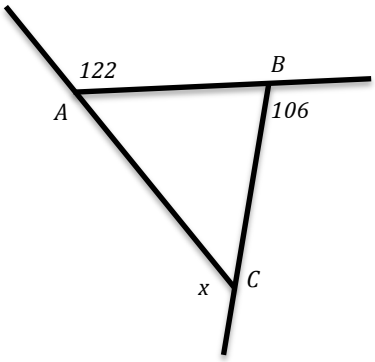
1. Find the available measures of the angles of your triangle.
2. Use the facts we have learned about triangles (especially that all triangles are 180° or that straight angles are 180°) to help solve for your unknown angle measure.

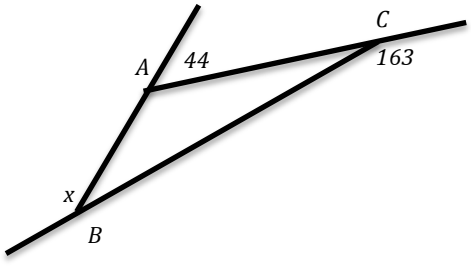








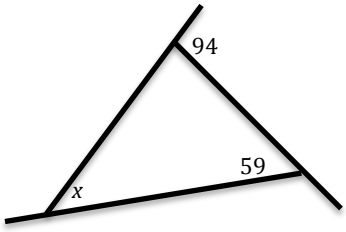


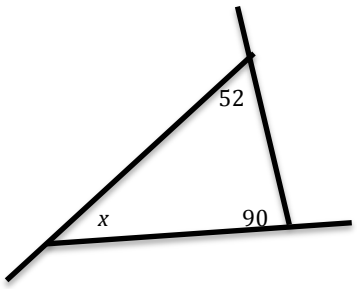


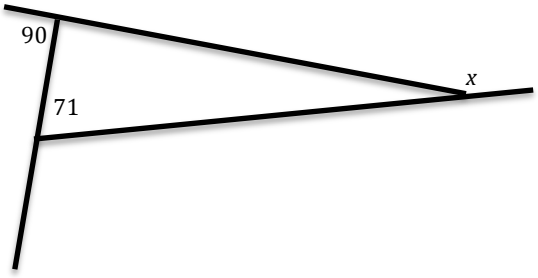
NAME:_____ Math _____, Period _____

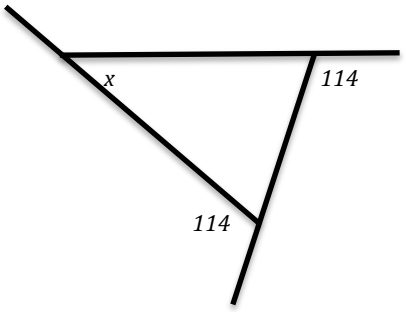
Mr. Rogove Date:_____

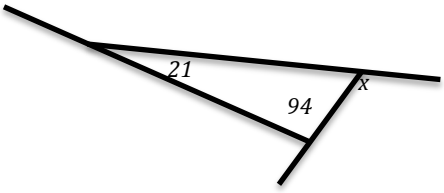
Independent Practice:

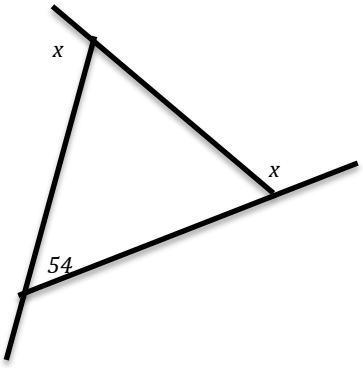












NAME:_____ Math _____, Period _____

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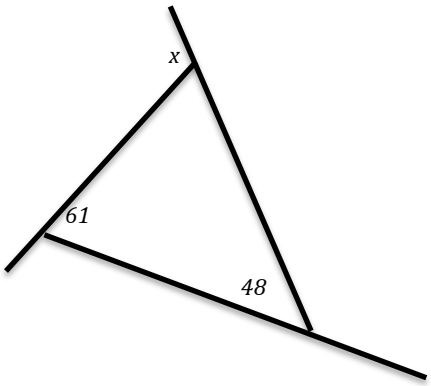

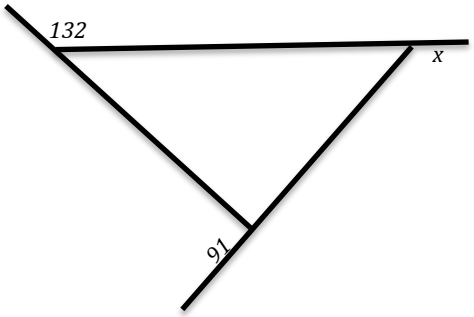

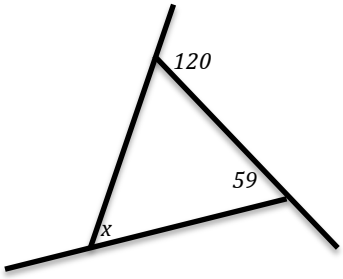

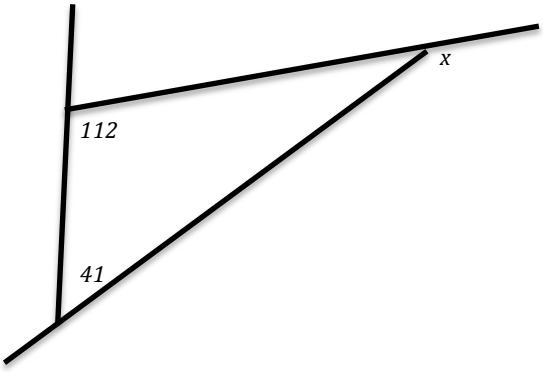

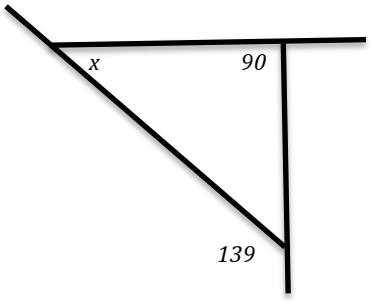

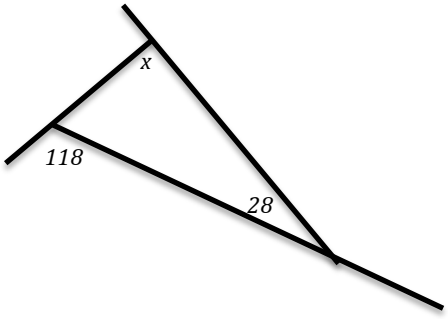

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Activating Prior Knowledge:

Review triangle sum theorem.

Closure: