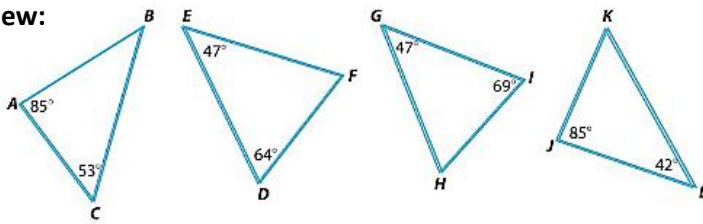


Name:

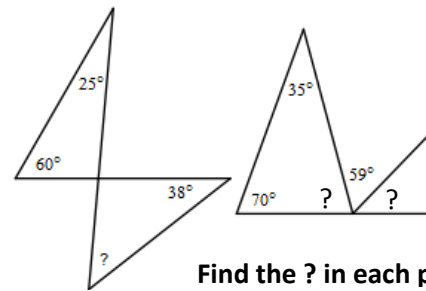
Date:
Period:

Lesson: Angles of a Triangle (Day 2)

Review:



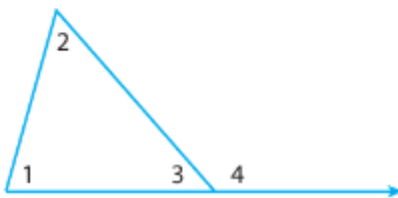
Find the missing angle in each picture.



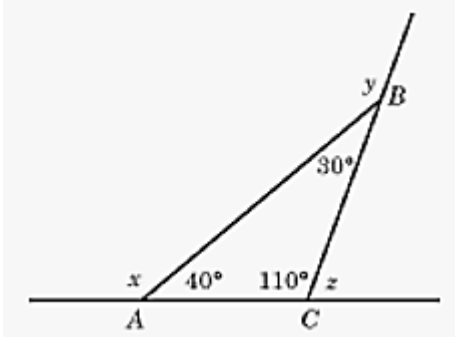
Find the ? in each picture.

Exterior Angles and Remote Interior Angles

An **interior angle** of a triangle is formed by two sides of the triangle. An **exterior angle** is formed by one side of the triangle and the extension of an adjacent side. Each exterior angle has two remote interior angles. A **remote interior angle** is an interior angle that is not adjacent to the exterior angle.

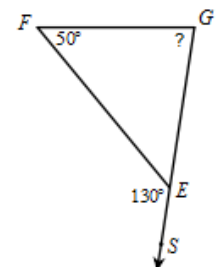
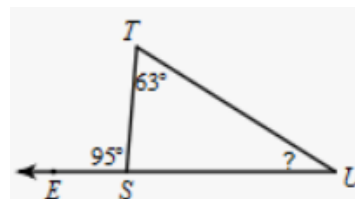
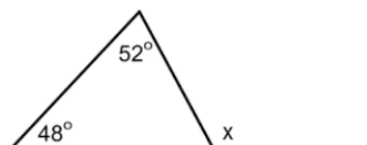
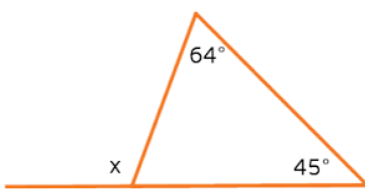


- $\angle 1$, $\angle 2$, and $\angle 3$ are interior angles.
- $\angle 4$ is an exterior angle.
- $\angle 1$ and $\angle 2$ are remote interior angles to $\angle 4$.

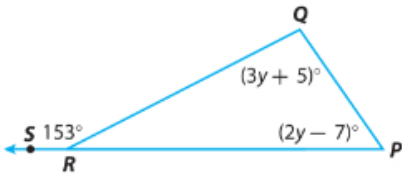


Find x , y , and z . State the relationship between **exterior angles** and the **two remote interior angles**.

Find the x or the ? using the **exterior angle theorem**.



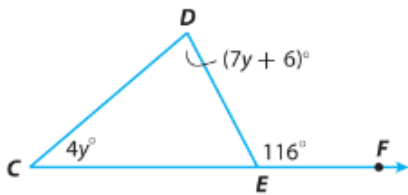
For each diagram find the unknown variable and the indicated angles. Use the **exterior angle theorem**.



$m\angle Q =$ _____

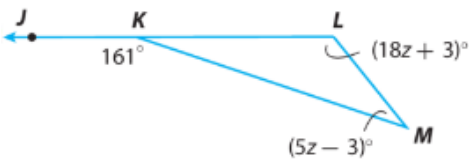
$m\angle P =$ _____

$m\angle QRP =$ _____



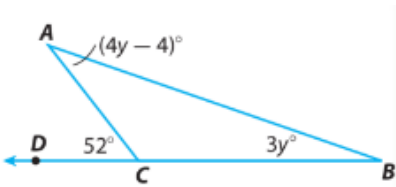
$m\angle C =$ _____, $m\angle D =$ _____,

$m\angle DEC =$ _____



$m\angle L =$ _____, $m\angle M =$ _____,

$m\angle LKM =$ _____



Find the value of y .

Find $m\angle M$ and $m\angle N$.

$m\angle M =$ _____

$m\angle N =$ _____

