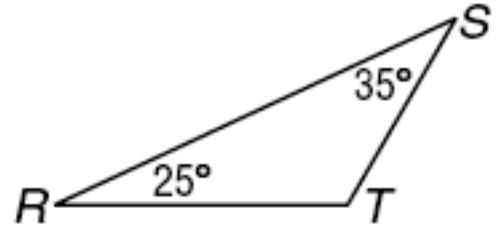


4-2 Angles of Triangles

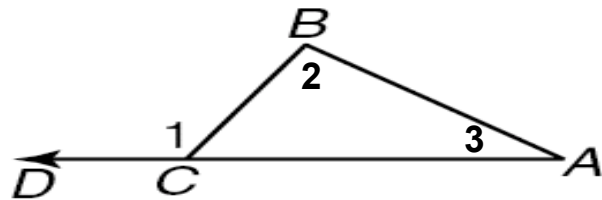
Angle Sum Theorem: The _____ of the measures of the angles of a triangle is _____.

Third Angle Theorem: If _____ of one triangle are congruent to _____ of a second triangle, then the _____ of the triangles are _____.



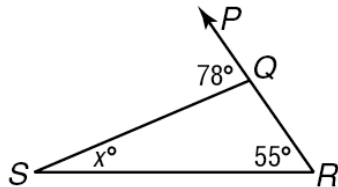
Exterior Angle: formed by _____ of a triangle and the _____ of an other side

Remote Interior Angles: The _____ of the triangle _____ to a given _____

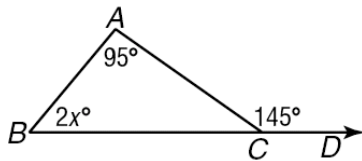


Exterior Angle Theorem: The measure of an _____ of a triangle is _____ to the _____ of the measures of the _____ angles.

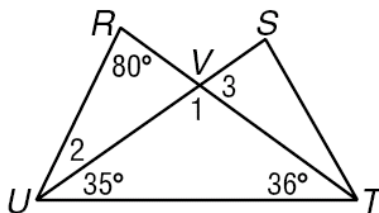
Find x .



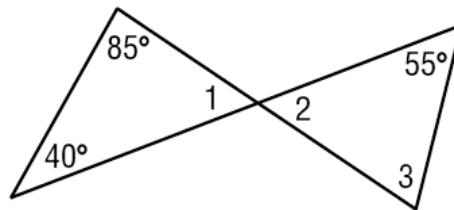
Find x .



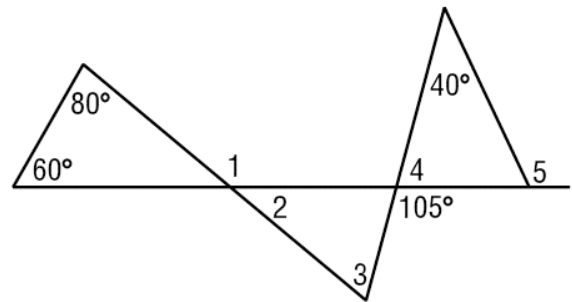
Find $m\angle 1$, $m\angle 2$ and $m\angle 3$.



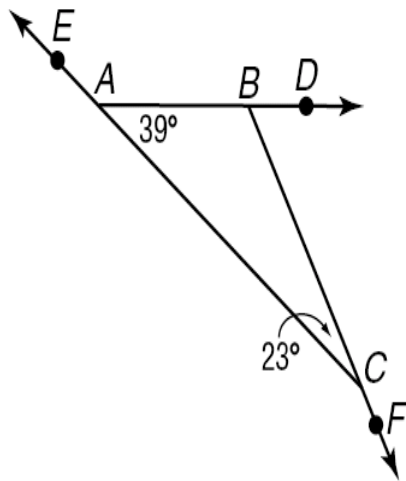
Find $m\angle 1$, $m\angle 2$ and $m\angle 3$.



Find $m\angle 1$, $m\angle 2$, $m\angle 3$, $m\angle 4$, and $m\angle 5$.



Find $m\angle EAB$, $m\angle DBC$ and $m\angle ECF$.



Flow Proof: an _____ series of _____ in _____, starting with the given statements. (Picture p187)

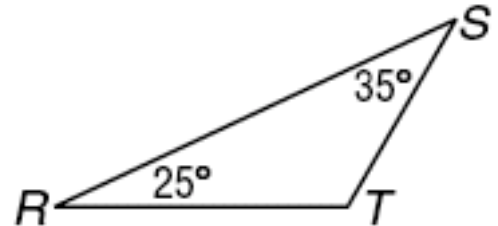
Corollary: a _____ that can be easily proved using a _____

The _____ angles of a _____ triangle are _____.

There can be at most one _____ or _____ angle in a triangle.

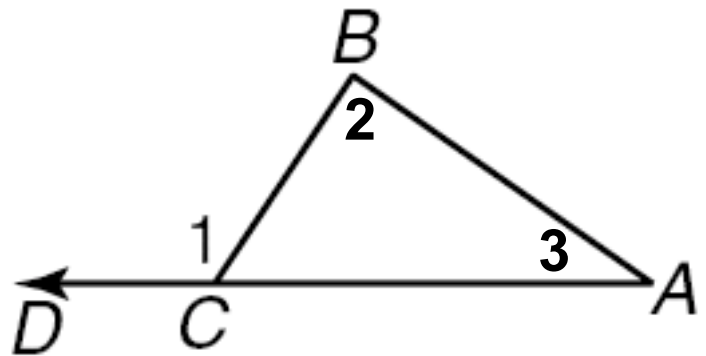
4-2 Angles of Triangles

Angle Sum Theorem: The sum of the measures of the angles of a triangle is 180.



Third Angle Theorem: If two angles of one triangle are congruent to two angles of a second triangle, then the third angles of the triangles are congruent.

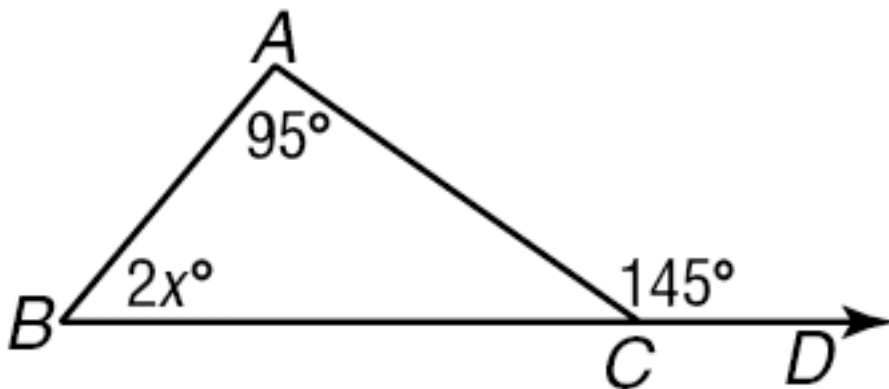
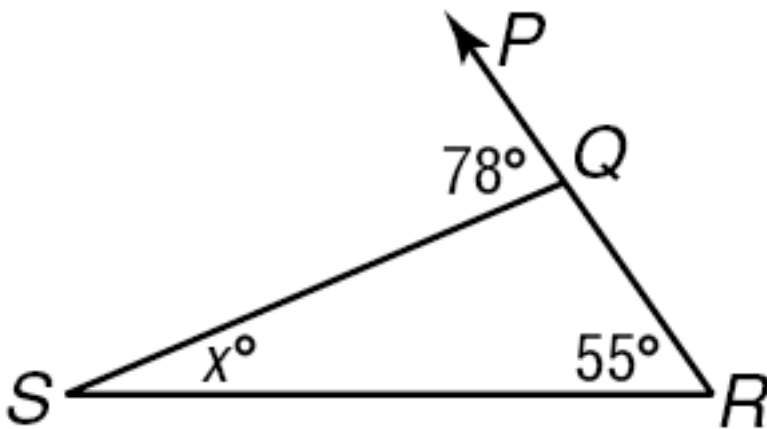
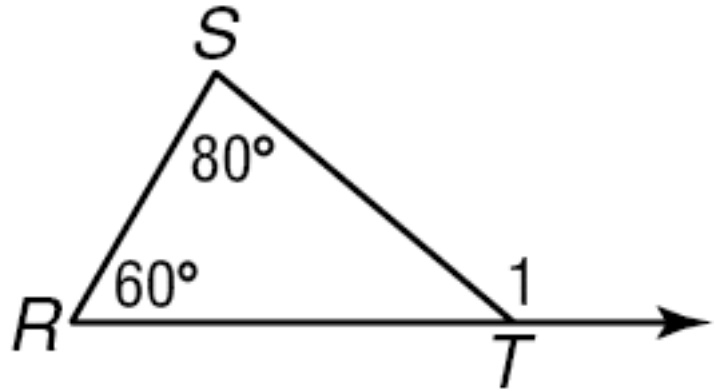
Exterior Angle: formed by one side of a triangle and the extension of an other side

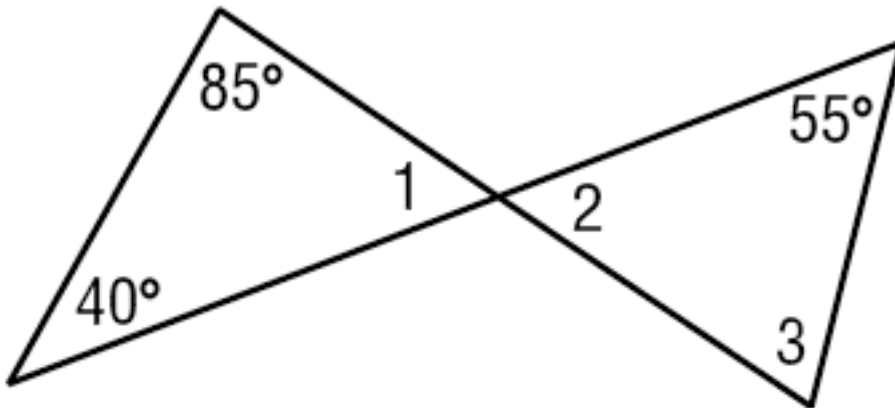
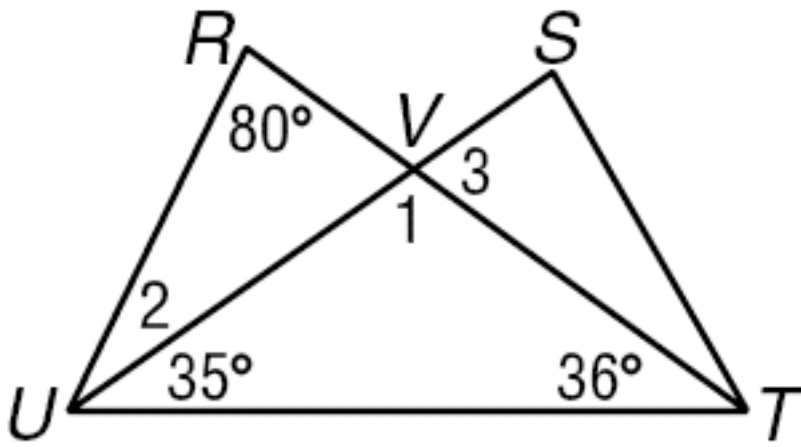


Remote Interior Angles: The interior angles of the triangle not adjacent to a given exterior angle

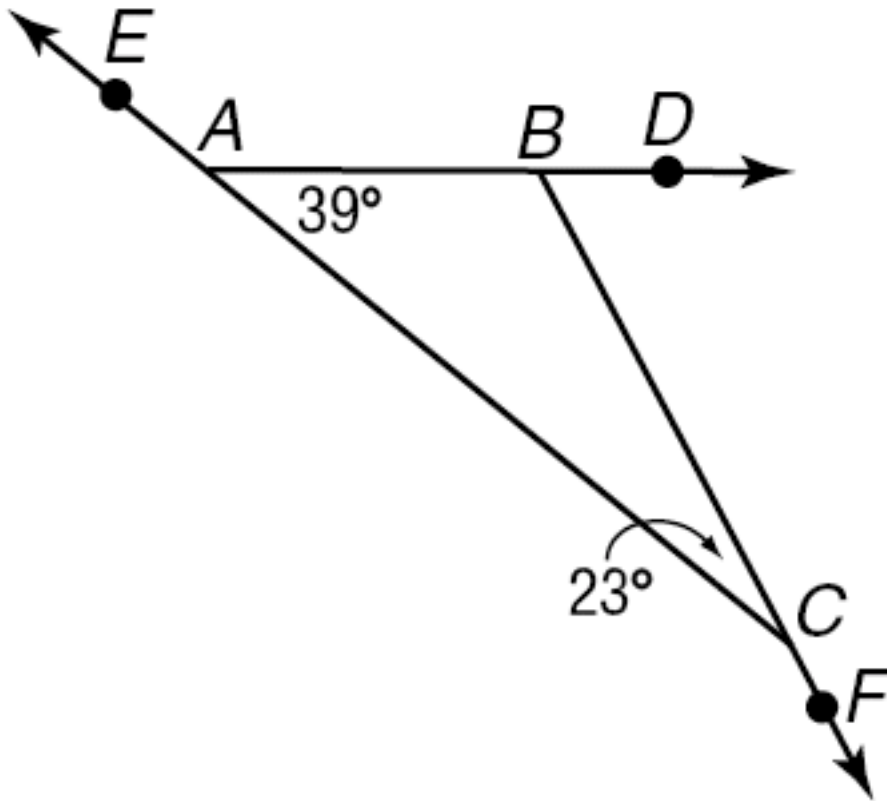
Exterior Angle

Theorem: The measure of an exterior angle of a triangle is equal to the sum of the measures of the two remote interior angles.





Find $m\angle EAB$, $m\angle DBC$ and $m\angle ECF$.



Flow Proof: an organized series of statements in logical order, starting with the given statements. (Picture p187)

Corollary: a statement that can be easily proved using a theorem

The acute angles of a right triangle are complementary.

There can be at most one right or obtuse angle in a triangle.