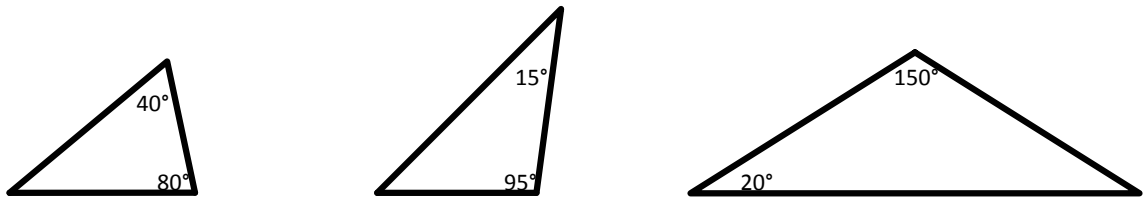
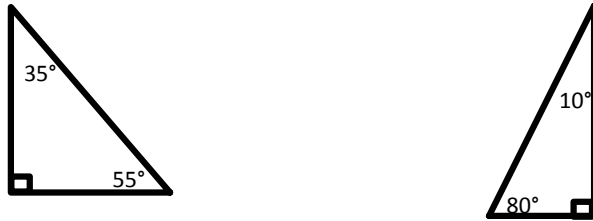


Angles of Triangles

Triangle Sum Theorem - The sum of the measures of the interior angles of a triangle is 180° .

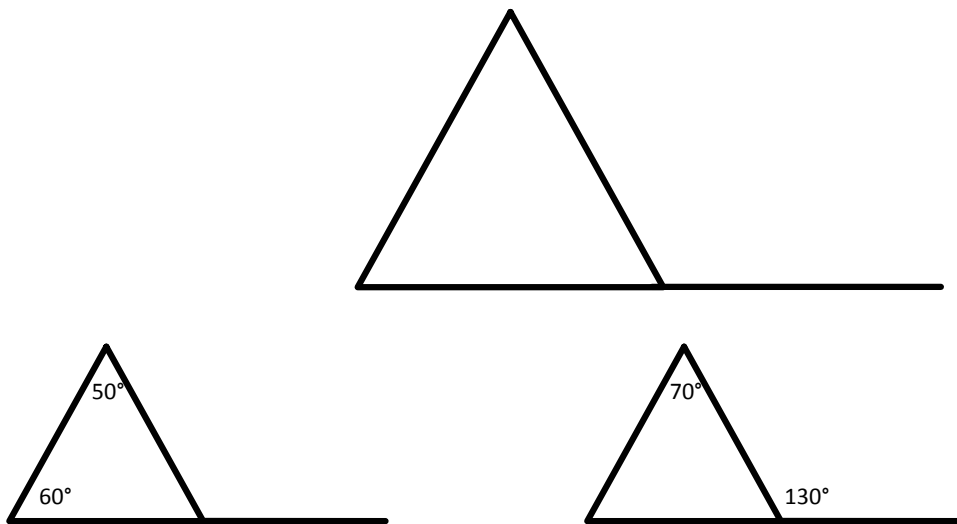


Corollary 1 - The acute triangles of a right triangle are complementary.



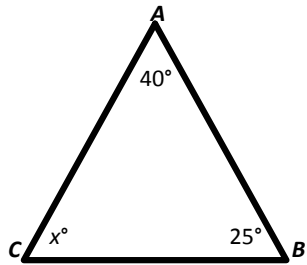
Corollary 2 - There can be at most one right or obtuse angle in a triangle.

Exterior Angle Theorem - The measure of the exterior angle is equal to the sum of the two remote interior angles.

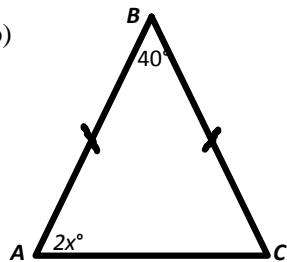


Directions: Find the value of x and the measure of each angle of $\triangle ABC$.

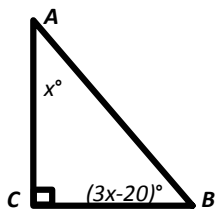
a)



b)



c)

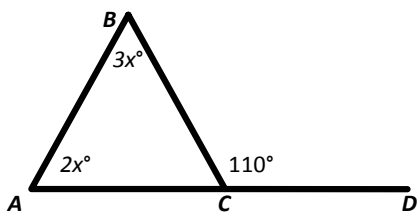


d) $m\angle A = 3x - 14$

$m\angle B = 5x + 4$

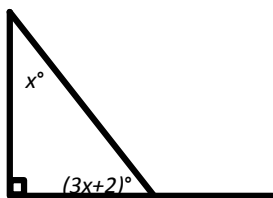
$m\angle C = 2x$

e)

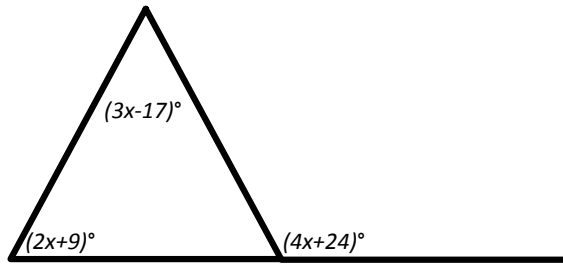


Directions: Find the value of x and the measure of the exterior angle.

a)



b)



c)

