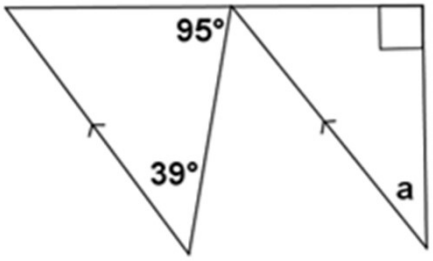
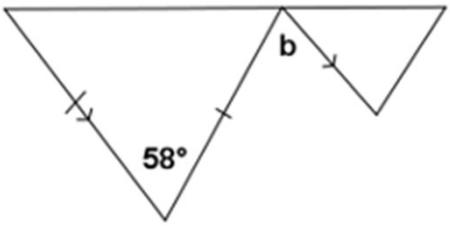
Angles in Triangles Worksheets

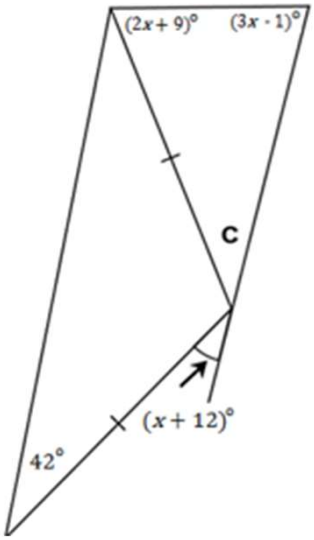
In each exercise below, find the unknown (labeled) angles. Give reasons for your solutions.



$m\angle \mathrm{a} =$



$m\angle \mathrm{b} =$



$m\angle \mathrm{c} =$

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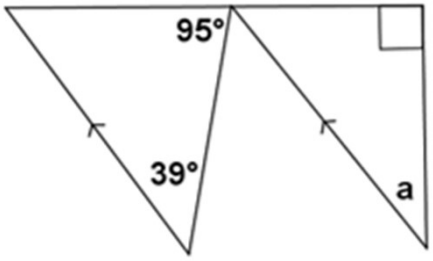
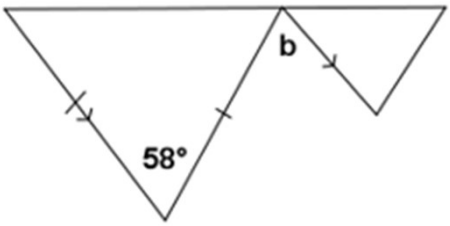


$m\angle a = 44°$

If parallel lines are cut by a transversal, then alternate interior angles are equal in measure.

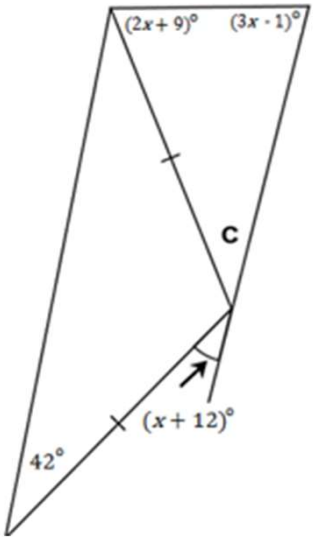
Linear pairs form supplementary angles.

The sum of the angle measures in a triangle is $180°$.



$m\angle b = 58°$

If parallel lines are cut by a transversal, then alternate interior angles are equal in measure.



$m\angle c = 47°$

The base angles of an isosceles triangle are equal in measure.

The sum of the angle measures in a triangle is $180°$.

The exterior angle of a triangle equals the sum of the two interior opposite angles.

The sum of the angle measures in a triangle is $\mathbf{180}°$.