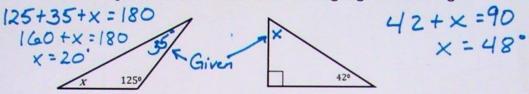
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Interior Angles of a Triangle

FACT: The three interior angles of a triangle always add up to 180°.

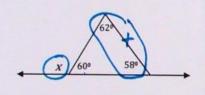
Write an equation and solve to find the missing angle in the triangle.



Exterior Angles of a Triangle

The exterior angle of a triangle is always equal to the sum of the opposite interior angles.

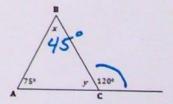
Example 1: Examine the figure below. Find the measure of the missing angle 180 = 180



- 1) Sum 4's in triangle = 180
 - 120°
- 3) Sum of interior angles opposite of angle "x"

Example 2: Find the measure of 4x and 4y.

Step 1: Use the rule for exterior angles to write equation to solve for x.



Find

Step 2: The sum of the interior angles of a triangle equals 180°, and ≰BCA supplements ≰BCD, so either

SUM of INTERIOR

ANGLES

75+45+y=180

120+y=180

y=60

ANGLES Y + 120 = 180 Y = 60

SUPPLEMENTAL