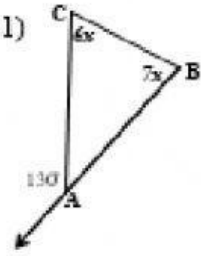
Codeyoung

Advanced_Grade-6_Geometry

The Exterior Angle Property of a Triangle

EXTERIOR ANGLES OF A TRIANGLE

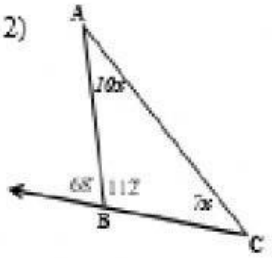
Directions: Find the measurement of each missing angle in the triangles below. Remember, the Exterior Angles Theorem states that the exterior angle is congruent to the sum of the two non-adjacent angles. For example, in Problem 1, the exterior angle (x) is congruent to the sum of the two angles furthest away (60° & 70°). Be careful, sometimes you'll need to find the measure of an interior angle.

1) 

x = _____

$\angle B$ = _____

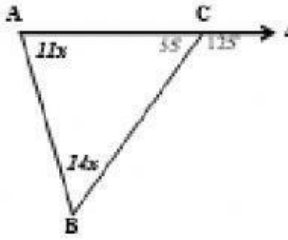
$\angle C$ = _____

2) 

x = _____

$\angle A$ = _____

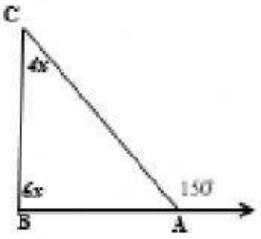
$\angle C$ = _____

3) 

x = _____

$\angle A$ = _____

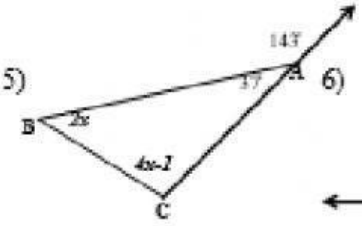
$\angle B$ = _____

4) 

x = _____

$\angle B$ = _____

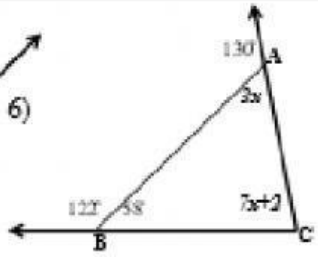
$\angle C$ = _____

5) 

x = _____

$\angle B$ = _____

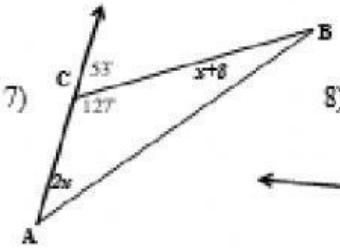
$\angle C$ = _____

6) 

x = _____

$\angle A$ = _____

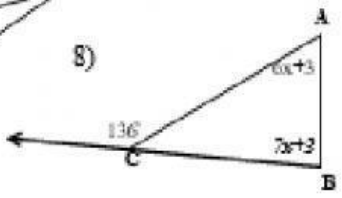
$\angle C$ = _____

7) 

x = _____

$\angle A$ = _____

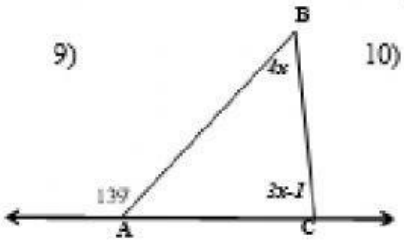
$\angle B$ = _____

8) 

x = _____

$\angle A$ = _____

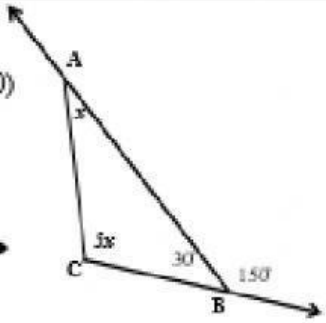
$\angle B$ = _____

9) 

x = _____

$\angle B$ = _____

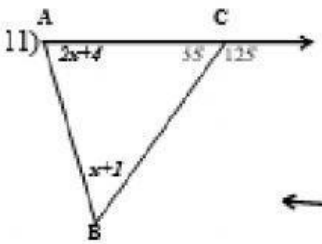
$\angle C$ = _____

10) 

x = _____

$\angle A$ = _____

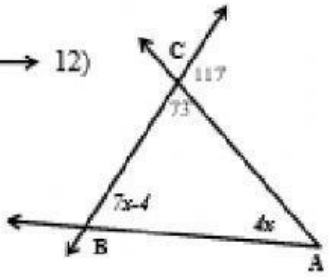
$\angle C$ = _____

11) 

x = _____

$\angle A$ = _____

$\angle B$ = _____

12) 

x = _____

$\angle A$ = _____

$\angle B$ = _____