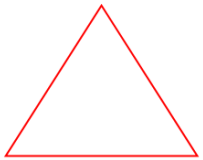
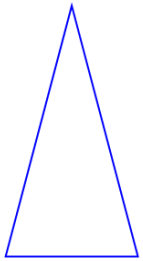
Classifying triangles by their sides



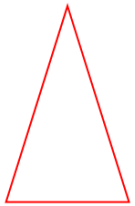
Equilateral -

Equiangular -



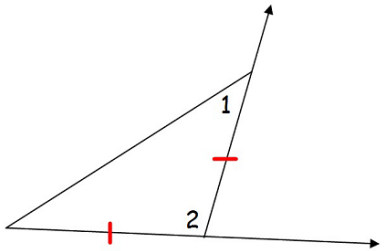
Isosceles -

Base Angle Theorem

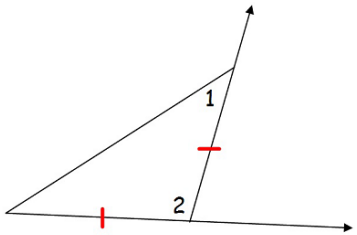


When two sides on a triangle are congruent,

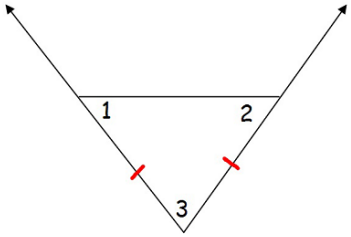
What is the value of x when $m\angle 1 = (-3x + 66)^o$ and $m\angle 2 = (-8x + 160)^o$?



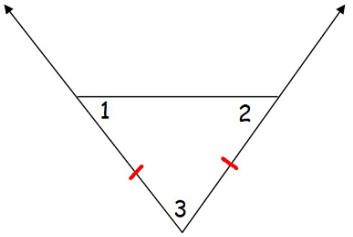
How many degrees is the measure of angle 2 when $m\angle 1 = (2x + 56)^o$ and $m\angle 2 = (8x + 152)^o$?



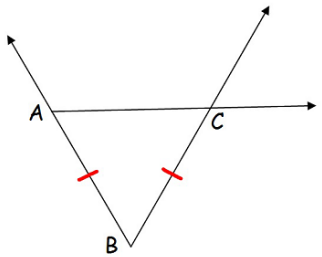
How many degrees is the measure of angle 1 when $m\angle 2 = (-3x + 74)^o$ and $m\angle 3 = (7x + 25)^o$?



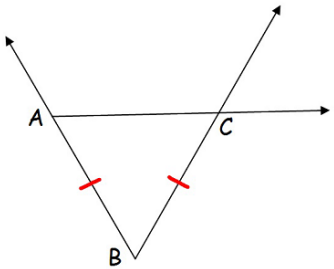
How many degrees is the measure of angle 3 when $m\angle 1 = (-3x + 30)^o$ and $m\angle 3 = (8x + 136)^o$?



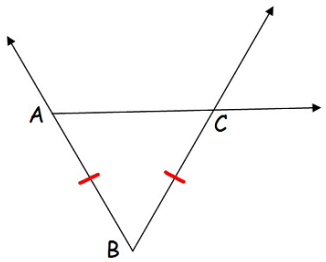
How many degrees is the measure of angle CBA when $m\angle ACB = (2x + 53)^o$ and $m\angle CBA = (7x + 41)^o$?



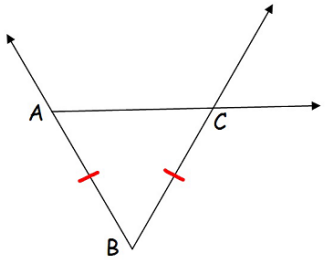
What is the value of x when $m\angle BAC = (3x + 87)^o$ and $m\angle CBA = (-7x - 3)^o$?



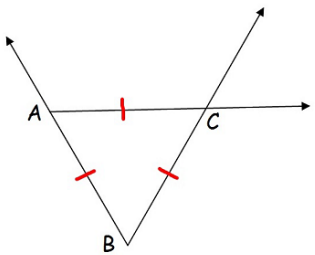
How many units is x when $CA = -2x + 41$, $AB = -7x + 66$ and the perimeter of ΔABC is 93 units?



How many units is x when $CB = -2x + 29$, $AB = 8x + 49$ and the perimeter of ΔABC is 102 units?



How many units is the perimeter of triangle ABC when $CB = 2x + 59$ and $AB = -8x + 29$?



How many units is the measure of CA when $BC = 2x + 29$ and $CA = -8x + 99$?