

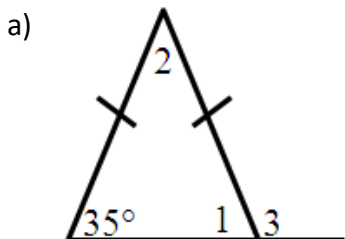
Name: _____

Date: _____

HW Math 9 Section 8b: Understanding angles in a Triangle

1. What is the sum of all three angles in any triangle?
2. In an equilateral triangle, what is the value of each angle?
3. In a right triangle, if one angle is 63° , then what is the value of the third angle?
4. If one angle in an isosceles triangle is 34° , then what is the value of the other two angles?

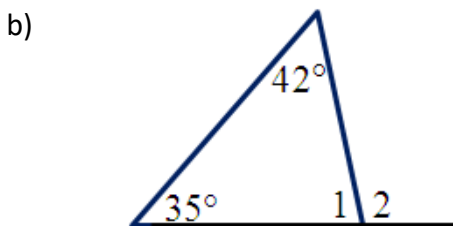
5. Given each of the following images, find the value of the missing angles. Provide reasons for your answers:



$\angle 1 =$ _____

$\angle 2 =$ _____

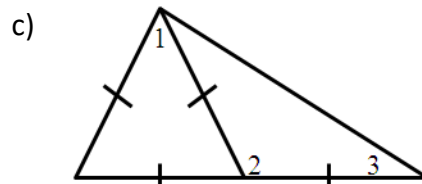
$\angle 3 =$ _____



$\angle 1 =$ _____

$\angle 2 =$ _____

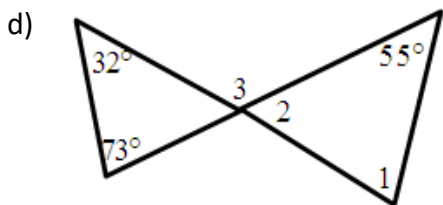
$\angle 3 =$ _____



$\angle 1 =$ _____

$\angle 2 =$ _____

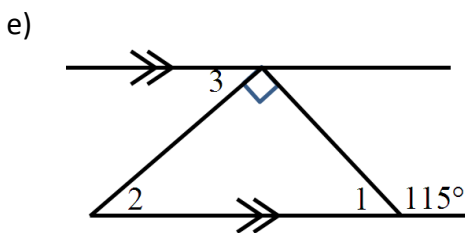
$\angle 3 =$ _____



$\angle 1 =$ _____

$\angle 2 =$ _____

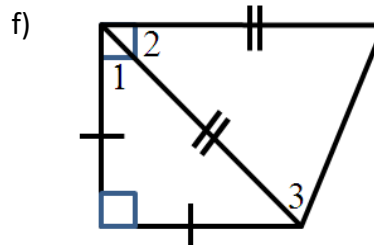
$\angle 3 =$ _____



$\angle 1 =$ _____

$\angle 2 =$ _____

$\angle 3 =$ _____

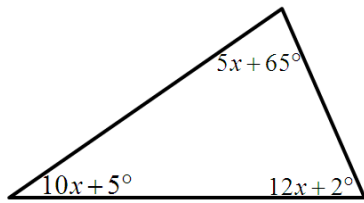


$\angle 1 =$ _____

$\angle 2 =$ _____

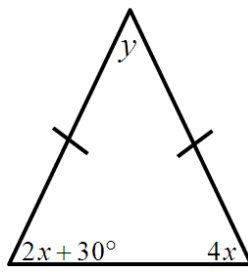
$\angle 3 =$ _____

g)



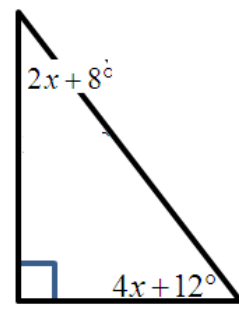
$x =$ _____

h)



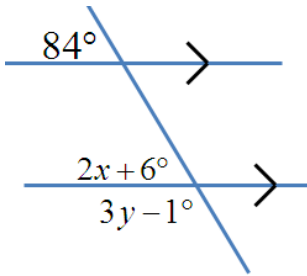
$x =$ _____

i)



$x =$ _____

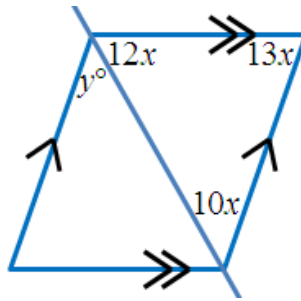
j)



$x =$ _____

$y =$ _____

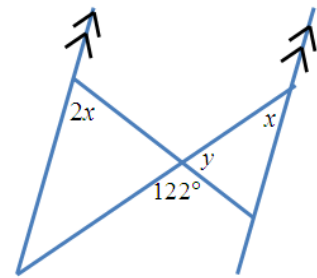
k)



$x =$ _____

$y =$ _____

l)



$x =$ _____

$y =$ _____