

find the rest of the sides and degree of the triangle.

A= ?

B= ?

C= 95 degrees

a= 2

b= 3

c= ?

area= ?

$$c = \left( \sqrt{a^2 + b^2 - 2ab\cos(c)} \right)$$

$$c = \sqrt{4 + 9 - 12\cos(95^\circ)} = 3.75$$

$$A = \arccos\left(\frac{b^2 + c^2 - a^2}{2bc}\right)$$

$$A = \arccos\left(\frac{9 + 14 - 4}{22.5}\right) = 32^\circ$$

$$B = 180^\circ - (95^\circ + 32^\circ) = 53^\circ$$