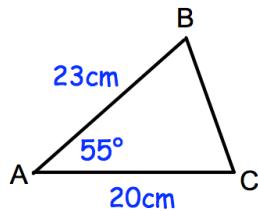


8th October

Corbettmaths

A circle has equation $x^2 + y^2 = 64$

Find the circumference of the circle



AB = 23cm to the nearest number
AC = 20cm to one significant figure
Angle ABC = 55° to the nearest 5°

Calculate the largest possible length of BC

A helicopter leaves town A and flies 8km due North to town B. The helicopter then flies on a bearing of 105° for 15km until it reaches town C.

Calculate the direct distance from town A to town C.

Work out $(\sqrt{8} + \sqrt{12})^2$

a is directly proportional to \sqrt{c} .
 w is inversely proportional to a^3 .

When $c = 49$, $a = 35$

When $a = 2$, $w = 16$.

Find the value of w when $c = 4$.