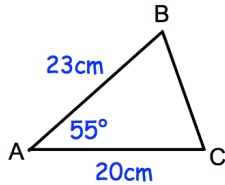




A circle has equation $x^2 + y^2 = 64$

Find the circumference of the circle



AB = 23cm to the nearest centimetre.
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

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

Solve

$$\sqrt[3]{4\sqrt{x} - 11} = 3$$