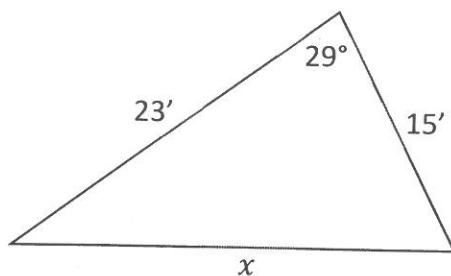
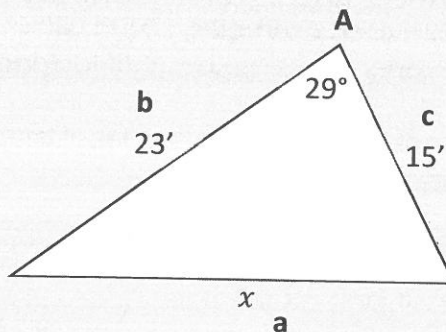


Example 2

Determine the length of the side labelled x .



Label what you are looking for 'a' (and the opposite angle 'A'). Label the other sides 'b' and 'c' – in whichever order you like. You should have something like this:



Now insert information into formula and solve:

$$\begin{aligned} a^2 &= b^2 + c^2 - 2bc \cos A \\ x^2 &= 23^2 + 15^2 - 2(23)(15) \cos 29^\circ \\ x^2 &= 150.5124021 \\ \sqrt{x^2} &= \sqrt{150.5124021} \end{aligned}$$

$$x = 12.27$$