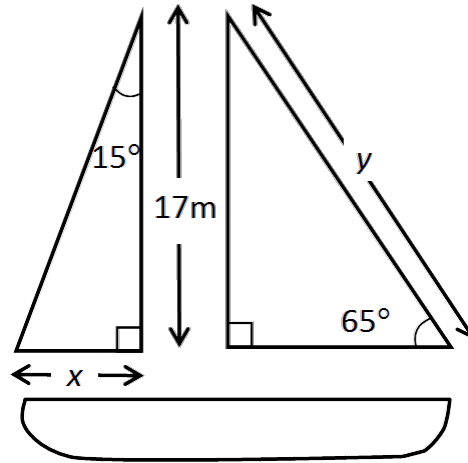# Sails for the yacht

This task is about using trigonometry to calculate lengths of a triangle.

[Not drawn to scale]

Maia is drawing a pattern so she can make two sails for her yacht.
She calculates the lengths of sides x and y using the measurements above and trigonometry.

a) Calculate the length of side x. Use the space provided to show your working.

Length of side $x =$ _____ metres.

b) i) Use trigonometry to show **two different** ways Maia could find the length of side y.
Use the numbers in the diagram above.

1:	2:

ii) Use one of your methods to calculate the length of side y.

Length of side y = _____ metres.