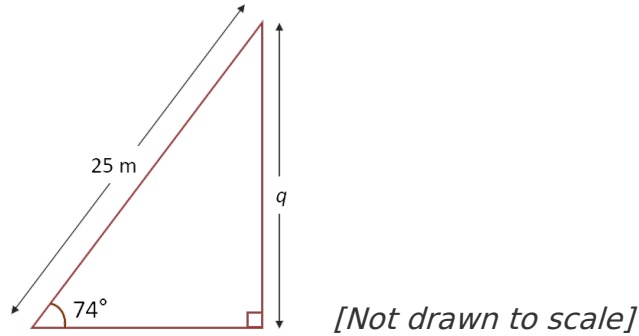


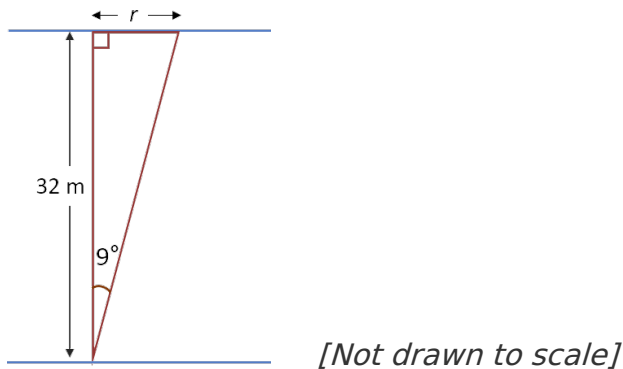
Calculating distance

This task is about using trigonometry to find missing lengths.



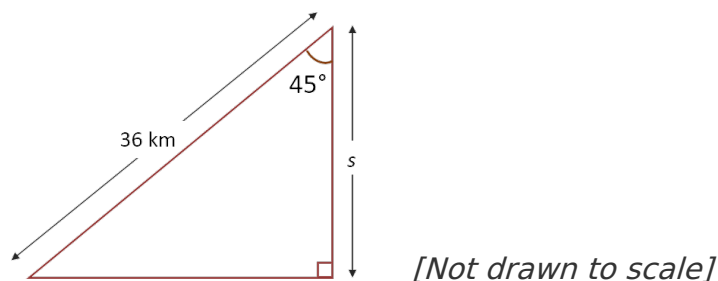
- a) Chris is flying a kite on a 25 metre (m) string. The string is at an angle of 74° . How high off the ground is the kite?
Show your working.

$q =$ _____ metres



- b) Sue swam across a river that is 32 metres (m) wide. The current took her off course by 9° . How far down the river did the current take her by the time she got to the other side?
Show your working.

$r =$ _____ metres



- c) Alex sailed his yacht south-west at 45° for 36 kilometres (km). How far south of his starting point is Alex's yacht now?
Show your working.

Published on Assessment Resource Banks (<https://arbs.nzcer.org.nz>) $s =$ _____ kilometres