Questions: Trigonometry (radians)

Summary

A selection of questions on trigonometry, where angles are measured in degrees.

*Before attempting these questions, it is recommended that you read* [*Guide: Trigonometry (radians)*](../studyguides/trigonometry-radians.qmd)

## Q1

You are given the triangle below.



Q1. Triangle

Find , and of both and .

## Q2

Using the triangle below, solve the following equations.



Q2. Triangle

2.1. If angle is and , what length is ?

2.2. If angle is and , what length is ?

2.3. If angle is and , what length is ?

2.4. If angle is and , what length is ?

2.5. If angle is and , what length is ?

2.6. If angle is and , what length is ?

## Q3

Without using a calculator if possible, give the values of the following expressions.

3.1.

3.2.

3.3.

3.4.

3.5.

3.6.

3.7.

3.8.

3.9.

[After attempting the questions above, please click this link to find the answers.](../answers/as-trigonometry-radians.qmd)

## Version history and licensing

v1.0: initial version created 08/23 by Dzhemma Ruseva, Ellie Gurini, Ciara Cormican as part of a University of St Andrews STEP project.

* v1.1: edited 05/24 by tdhc, and split into versions for both degrees and radians.

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