E · Trigonometry

AQA · A-Level · Mathematics · Vocabulary in context

Word	Example
trigonometry /ˌtrɪgəˈnɒmətri/	**Trigonometry** connects angles with ratios of lengths.
unit circle /ˈjuːnɪt ˈsɜːkl/	A **unit circle** has a radius of one.
quadrant /ˈkwɒdrənt/	An angle of 200° lies in the third **quadrant**, where sine and cosine are both negative. 200°
radian /ˈreɪdɪən/	One full turn is an angle of 2π **radians**. 2π
arc length /ɑːk leŋθ/	Measure the **arc length** along the curved edge.
sector /ˈsektə/	A **sector** is a slice of a circle, like a piece of pizza.
segment /ˈsegmənt/	A **segment** is the part of a circle cut off by a chord.
sine rule /saɪn ruːl/	Use the **sine rule** to find the missing side.
cosine rule /ˈkəʊsaɪn ruːl/	Use the **cosine rule** when you know two sides and the angle between them.
ambiguous case /æmˈbɪgjuːəs keɪs/	In the **ambiguous case**, the sine rule gives two possible triangles.
period /ˈpɪərɪəd/	The **period** of the wave is 0.02 s. 0.02 s
amplitude /ˈæmplɪtjuːd/	Loud sounds have a large **amplitude**.
principal value /ˈprɪnsɪpl ˈvæljuː/	A calculator gives only the **principal value**, such as $\sin^{-1}(0.5) = 30°$. $\sin^{-1}(0.5) = 30°$

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÷ **reciprocal functions** /rɪˈsɪprəklˈfʌŋkʃnz/	Sec, cosec and cot are the **reciprocal functions** of cos, sin and tan. Sec、cosec cot cos、sin tan
+ **compound angle formulae**	The **compound angle formulae** give sin(A + B) from sin and cos of A and B. A B sin cos sin(A + B)
× **double angle formulae**	The **double angle formulae** give sin 2A as 2 sin A cos A. sin 2A 2 sin A cos A
🔒 **restricted domains**	Inverse sin, cos and tan need **restricted domains** so that each gives one answer. sin、cos tan

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