

Dinemial Europeian

Binomial Expansion

Students will extend and deepen their knowledge binomial expansions to include functions with any rational power. They will again use their expansion to approximate.

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Autumn Term



Students will convert equations into Cartesian form by substitution, making use of the trigonometric identities where needed. Students will use this knowledge to solving coordinate geometry problems involving parametric equatiuons in a variety of contexts.

Trigonometry and Modelling

Students will prove and use the addition formulae, understanding how this is transfers to the double angle formulae, solving equatioons using identities. Students will also simplify expressions using trig identities. In addition modelling using these identities.

Sequences and Series

Students will learn about the different type of sequences, particularly arithmetic and geometric progressions. This will include solving problems involving terms and sums of series and using the associated formulae.

Trigonometric Functions

Students will understand and use the definitions of secant, cosecant and cotangent identifying their graphs and the relationships between these and sine, cosine and tangent. Students will also form proofs for secant, cosecant and cotangent, building on identities already familiar to them. Using this knowledge to solve problems involving secant, cosecant and cotangent