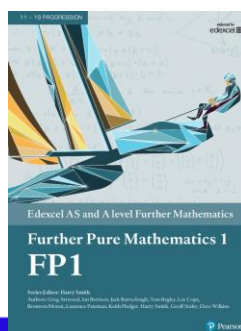
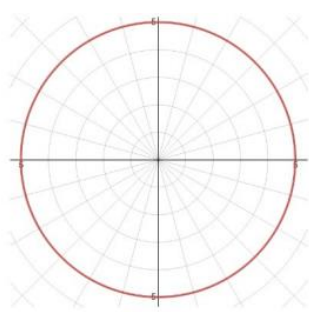
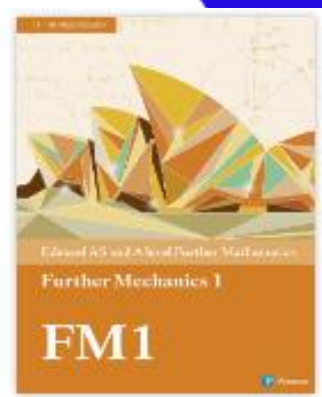
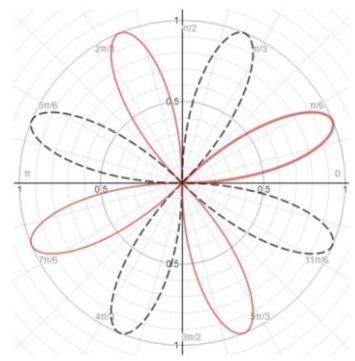


Year 13 Further Maths

LEARNING JOURNEY

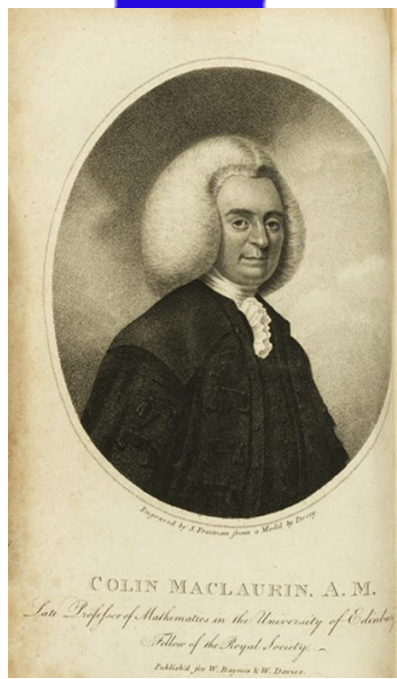


Methods in Calculus (FP1)

Numerical Methods (FP1)

Inequalities (FP1)

Momentum as a vector (FM1)

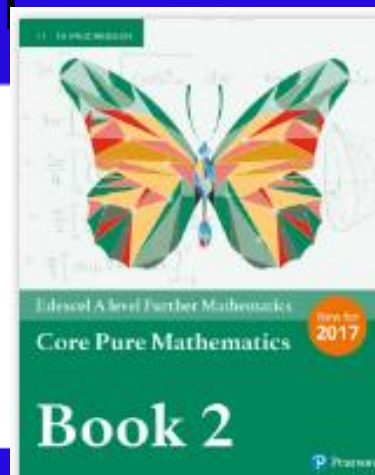
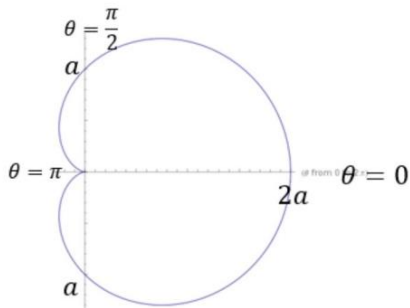


Conic Sections (FP1)

Taylor series (FP1)

Elastic strings and springs (FM1)

Volumes of revolution



Modelling with differential equations

Methods in Differential Equations

Hyperbolic Functions

Polar Coordinates

Methods in calculus

Complex number

Series



Year 13 Further Maths learning summary:

During the Further Maths course we will:

- understand mathematics and mathematical processes in a way that promotes our confidence, fosters enjoyment and provides a strong foundation for progress to further study.
- extend our range of mathematical skills and techniques over and above the A-Level Maths syllabus, giving us a deep insight into the processes used in mathematics.
- approach very complex multi-step problems with tenacity, producing solutions which require manipulating very complex algebra over many steps
- understand coherence and progression in mathematics and how different areas of mathematics are connected
- apply mathematics in other fields of study and be aware of the relevance of mathematics to the world of work and to situations in society in general
- use our mathematical knowledge to make logical and reasoned decisions in solving problems both within pure mathematics and in a variety of contexts, and communicate the mathematical rationale for these decisions clearly
- reason logically and recognise incorrect reasoning
- generalise mathematically
- construct mathematical proofs using a variety of approaches
- use our mathematical skills and techniques to solve challenging problems that require us to decide on the solution strategy
- make deductions and inferences and draw conclusions by using mathematical reasoning