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[Sigma notation](sigmanotation.qmd)

[Quadratic formula](quadraticformula.qmd) – [questions](qs-quadraticformula.qmd)

[Guide: Introduction to quadratic equations](introtoquadratics.qmd) ([pdf](introtoquadratics.pdf), [word](introtoquadratics.docx))

[Questions: Introduction to quadratic equations](qs-introtoquadratics.qmd) ([pdf](qs-introtoquadratics.pdf), [word](qs-introtoquadratics.docx))

[Answers: Introduction to quadratic equations](as-introtoquadratics.qmd) ([pdf](as-introtoquadratics.pdf), [word](qs-introtoquadratics.docx))

# List of topics / sections

## Vectors

### Initial

* What is a vector? (vector notation, positive, negative, zero, addition, scalar multiplication)
* Geometric properties of vectors (relation to 3D geometry, ijk/column vector notation, length, unit vectors)

### Operations

* The scalar product
* The vector product
* Triple products

### Geometry

* Vector equations of lines
* Vector equations of planes
* Solving geometric problems with vectors

## Algebra

### Arithmetic

* Sigma notation
* Pi notation

# Lana’s list

## easy enough to learn but still useful

* Sets
* Proofs
* Differentiation and derivatives
* Logs and exponentials

## Others

* Integrals
* Vectors
* Matrices
* Linear Algebra

## General mathematical notation such as

* Greek symbols and their names
* Sigma notation
* The lines and hats over letters (sorry don’t know the word)
* Indexing in equations

# Question words

Question words

* Prove that…
* Verify that…
* Evaluate…
* Show that…
* Calculate…
* Find…
* Exhibit…
* Describe…
* Sketch…
* Compute…
* Deduce…
* Calculate…
* Explain…
* Justify…
* Conclude…
* Is this true? Or false?
* Using X or otherwise…
* Define…
* State…