# STARMAST

This is a Quarto website.

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Sigma notation

Quadratic formula – questions

Guide: Introduction to quadratic equations (pdf, word)

Questions: Introduction to quadratic equations (pdf, word)

Answers: Introduction to quadratic equations (pdf, word)

## 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...