

Year 12 M6:Foundation Tier

Number and Algebra Overview

Learning Outcomes

You should be able to:

- understand the principles of number systems;
- convert numbers from decimal to binary (base 2) and vice versa;
- use index laws in algebra for positive powers;
- use systematic trial and improvement to find approximate solutions of equations where there is no simple analytical method of solving them;
- solve linear inequalities in one variable, and represent the solution set on a number line;
- change the subject of a simple formula;
- find the n th term of a sequence where the rule is linear;
- solve two linear simultaneous equations graphically; and
- generate points and plot graphs of simple quadratic functions and use these to find approximate solutions for points of intersection with lines of the form $y=\pm a$ only.