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1.6 Deduction

Checklist

What you should know

By the end of this subtopic, you should be able to

- distinguish between an equation and an identity
- use algebraic manipulations to construct a LHS to RHS proof
- recognise a conditional statement
- construct a deductive proof
- recognise and interpret set notation for number systems:
  - $\mathbb{N}$ represents the set of natural numbers $\{0,\ 1,\ 2,\ 3,\ 4,\ \ldots\}$
  - $\mathbb{Z}$ represents the set of integers $\{0,\ \pm 1,\ \pm 2,\ \pm 3, \ldots\}$
  - $\mathbb{Q}$ represents the set of rational numbers
  - $\mathbb{R}$ represents the set of real numbers.

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