

Further Pure 3 Notes

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Group Theory

1.1 Background Work

Set Notation

$$A = \{\text{Colours of the rainbow}\}$$

$$Red \in A$$

\uparrow
Is an element of.

$$\text{or } B\{2, 5, 11, 17\}$$

$$\text{or } C = \{x : x > 2\}$$

\uparrow
Such that.

Special sets

$$\mathbb{R} = \{\text{Real numbers}\}$$

$$\mathbb{C} = \{\text{Complex numbers}\}$$

$$\mathbb{Z} = \{\text{Integers}\}$$

$$\mathbb{Z}^+ = \{\text{Real numbers}\}$$

$$[\text{also } \mathbb{N} = \{\text{Natural numbers}\}]$$

$$\mathbb{Q} = \{\text{Rational numbers}\}$$