Solutions to Book Of Proof

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Preface

An attempt at solving all the exercises.

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Contents

Part I

Fundamentals

Chapter 1

Sets

1.1 Introduction to sets

1.1.1

$\{\ldots -16, -11, -6, -1, 4, 9, 14, \ldots\}$.

1.1.2

$\{\ldots -7, -4, -1, 2, 5, 8, 11, \ldots\}$.

1.1.3

$\{-2, -1, \ldots, 6\}$.

1.1.4

$\{1, 2, \ldots, 7\}$.

1.1.5

$\{\pm\sqrt{3}\}$.

1.1.6

$\{\pm 3\}$.

1.1.7

$\{-2, -3\}$.

1.1.8

$\{0, -2, -3\}$.

1.1.9

$\mathbb{Z}$.

1.1.10

$\{2\pi x : x \in \mathbb{Z}\}$.