



# *The Olympiad Algebra Handbook*

*Samuel de Araújo Brandão*

---

# **The Olympiad Algebra Handbook**

Samuel de Araújo Brandão

---

# Preface

---

# Acknowledgements

---



# Introduction

## Contents

Preface	iii
Acknowledgements	v
Introduction	vii
I Fundamentals	1
1 Inequalities	3
1.1 AM-GM inequality . . . . .	3



# Part I

# Fundamentals



# Chapter 1

## Inequalities

### 1.1 AM-GM inequality

