# Contents

## Introduction

1 Magic and antimagic labelings
   1.1 Basic definitions
   1.2 Magic-type labelings
      1.2.1 Magic, supermagic and prime-magic labelings
      1.2.2 Face-magic labelings
   1.3 Antimagic-type labelings
      1.3.1 Edge-antimagic total labelings
      1.3.2 Vertex-antimagic total labelings
      1.3.3 $d$-antimagic labelings

2 Labelings for 2-regular graphs
   2.1 Labelings for cycles
   2.2 Labelings for union of cycles

3 Face antimagic labelings of antiprisms
   3.1 Necessary conditions
   3.2 Antiprism as three cycle parts
   3.3 $d$-antimagic labelings of antiprism

4 Face antimagic labelings of disjoint union of prisms
   4.1 Necessary conditions
   4.2 $mD_n$ decomposed into $3m$ disjoint cycles
   4.3 $d$-antimagic labelings of $mD_n$

5 Conclusion
Appendix - Graph-theoretic symbols 60

Bibliography 61