SOLVING INTEGRATION PROBLEM USING FEYNMAN'S METHOD

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ABSTRACT

Solving integration problems is very important as it is commonly appeared in wide range of fields and profession such as physics, mathematics, and engineering. There are four known theoretical methods used to solve integration problems which are integration by substitution, integration by trigonometric substitution, integration by partial fraction and integration by part. However, these theoretical methods are quite complicated and leads to long and laborious calculation. Therefore, researchers tend to use Feynman's method which is quite simple and easy. In this project, seven theoretical methods which is integration by parts, integration by substitution, Gaussian integral, Power series, Properties of integral, Trigonometric substitution and Feynman's method are chosen to solve complicated integration problems. The best method that has been choose is analysed using step and sub-step taken for both methods. The main purpose of this study is to determine the best methods for solving integration problems.

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TABLE OF CONTENTS

page

DECLARATION BY THE SUPERVISOR ---------- i

DECLARATION BY THE CANDIDATE ---------- ii

ABSTRACT ---------- iii

ACKNOWLEDGEMENT ---------- iv

TABLE OF CONTENTS ---------- v

LIST OF TABLES ---------- viii

LIST OF FIGURES ---------- ix

INTRODUCTION OF RESEARCH ---------- 1

1.1 Introduction ---------- 1

1.2 Background Study ---------- 1

1.3 Problem Statement ---------- 2

1.4 Objectives ---------- 4

1.5 Significance of the Project ---------- 4

1.6 Scope of the Project ---------- 5

1.7 Project Benefits ---------- 6

1.8 Definition of Terms and Concept ---------- 6

1.9 Organization of Report ---------- 8

LITERATURE REVIEW AND METHODOLOGY ---------- 10

2.1 Introduction ---------- 10

2.2 Fundamental Concept of Integration ---------- 10

2.2.1 Integration by Parts ---------- 11

2.2.2 Integration by Substitution ---------- 12

2.2.3 Gaussian Integral ---------- 13

2.2.4 Power Series ---------- 14

2.2.5 Trigonometric Substitution ---------- 15

2.2.6 Properties of Integral ---------- 16

2.2.8 Feynman Method ---------- 16

2.3 Research Step ---------- 17

IMPLEMENTATION ---------- 20

3.1 Introduction ---------- 20

3.2 Sample of Function ---------- 20

3.3 Implementation of Theoretical Method ---------- 22

3.3.1 Implementation of Gaussian Integral (Problem 1) ---------- 22

3.3.2 Implementation of Integration By Parts (Problem 2) ---------- 24

3.3.3 Implementation Of Integration By Parts (Problem 3) ---------- 25

3.3.4 Implementation of Power Series (Problem 4) ---------- 27

3.3.5 Implementation of Integration By Parts, Integration By Substitution, Properties Of Integral, Trigonometric Substitution (Problem 5) ---------- 28

3.4 Implementation of Theoretical Method By Using Feynman Method ---------- 31

3.4.1 Implementation of Feynman Method For Problem 1 ---------- 32

3.4.2 Implementation of Feynman Method For Problem 2 ---------- 34

3.4.3 Implementation of Feynman Method For Problem 3 ---------- 35