

TABLE OF CONTENTS

| | Pages |
|--|------------|
| Ratification Sheet | <i>i</i> |
| Biography | <i>ii</i> |
| Abstract | <i>iii</i> |
| Acknowledgment | <i>iv</i> |
| Table of Contents | <i>vi</i> |
| List of Tables | <i>ix</i> |
| List of Figures | <i>x</i> |
| List of Appendices | <i>xii</i> |
| | |
| CHAPTER I INTRODUCTION | 1 |
| 1.1. Background | 1 |
| 1.2. Problem Identification | 5 |
| 1.3. Problem Limitation | 5 |
| 1.4. Problem Formulation | 6 |
| 1.5. Research Objective | 6 |
| 1.6. Research Benefit | 6 |
| 1.7. Operational Definition | 6 |
| | |
| CHAPTER II RELATED LITERATURE | 8 |
| 2.1. The Theoretical Framework | 8 |
| 2.1.1. Defenition of Metacognitive | 8 |
| 2.1.2. Component of Metacognitive | 10 |
| 2.1.3 The Metacognitive Level | 15 |
| 2.1.4. Students' Characteristic | 16 |
| 2.1.5. Mathematical Problem Solving | 18 |
| 2.1.6. Metacognitive in Mathematical Problem Solving | 21 |
| 2.2 Scaffolding Theory | 23 |
| 2.3 Qualitative Approach | 24 |
| 2.3.1 Data Collection Tehnique in Qualitative Research | 25 |

| | |
|---|-----|
| 2.4 Material Research | 26 |
| 2.4.1 Derivative | 27 |
| 2.4.2 Mind Mapping | 30 |
| 2.4.3 Introduction | 31 |
| 2.4.4 The Area between A Curve and The x-axis | 31 |
| 2.5 Relevant Research | 37 |
| 2.6 Conceptual Framework | 38 |
| CHAPTER III RESEARCH METHODOLOGY | 39 |
| 3.1. Approach and Type of Research | 40 |
| 3.2. Time and Location Research | 41 |
| 3.3. Subject and Object Research | 41 |
| 3.3.1 Subject of Research | 41 |
| 3.3.2 Object of Research | 41 |
| 3.4. Type and Design of Research | 42 |
| 3.5. Procedure of Research | 42 |
| 3.6. Data Collection Technique | 45 |
| 3.7. Instrument Research | 46 |
| 3.7.1 Initial Test | 47 |
| 3.7.2 Test | 47 |
| 3.8. Data Analysis | 48 |
| 3.9. Validity and Reliability | 49 |
| CHAPTER IV RESULT AND DISCUSSION | 50 |
| 4. 1 Result | 50 |
| 4. 2 Discussion of Result | 51 |
| CHAPTER V CONCLUSION AND SUGGESTION | 105 |
| 5. 1 Conclusion | 105 |
| 5. 2 Suggestion | 106 |
| REFFERENCES | 107 |
| APPENDICES | 109 |