PREFACE

First of all, the author thanks Allah SWT. for all the blessings and graces, for the health and opportunities in writing this skripsi so that it can be completed properly. The title of this skripsi is “Metasynthesis of Learning Device Development to Improve Student’s Problem Solving Ability” was compiled to fulfill the requirements for obtaining a degree of Sarjana Pendidikan from the Bilingual Study Program of Mathematics Education, Department of Mathematics, Faculty of Mathematics and Natural Sciences (FMIPA), Universitas Negeri Medan.

The author realizes that the preparation of this skripsi could not be completed without the support of various parties, either directly or indirectly. Through this opportunity, the author would like to express his gratitude to all those who have helped in the preparation of this thesis. Thanks are given to:

1. Mr. Dr. Syamsul Gultom, S.KM., M.Kes., as the rector of Universitas Negeri Medan.
2. Mrs. Prof. Dr. Fauziah Harahap, M.Sc., as the dean of faculty of mathematics and natural sciences, Universitas Negeri Medan.
3. Mr. Dr. Pardomuan Sitompul, M.Sc., as the head of the mathematics department and Mr. Lasker Pangarapen Sinaga, M.Sc., as the secretary of the mathematics department.
4. Mrs. Dr. Ely Djulia, M.Pd., as the bilingual program coordinator.
5. Mrs. Dr. Nurhasanah Siregar, S.Pd., M.Pd., as the head of mathematics education study program.
6. Mr. Dr. E. Elvis Napitupulu, M.S., as the skripsi supervisor who has been willing to take the time and patiently provide guidance, direction and motivate the author so that this skripsi can be completed properly.
7. Mrs. Dr. Mariani, M.Pd., Mr. Drs. Wingston Leonard Sihombing, M.Pd., and Mrs. Prihatin Ningsih Sagala, S.Pd., M.Si., as skripsi examiner who have provided critics and suggestion in the writing this skripsi.
8. Mrs. Dr. Izwita Dewi, M.Pd., as the academic supervisor.
9. Lecturers and administrative officers of the bilingual study program, and the department of mathematics, faculty of mathematics and natural sciences, Universitas Negeri Medan, who have helped and guided the author complete the skripsi and the lectures.

10. All of my Adnan’s family members, especially my father, Mr. Razid Adnan, my mother Mrs. Sri Multina and my younger brother Irmanto Adnan who have always been provided motivation, support, love and prayers for authors.

11. Seniors, especially Syafridah and Latif Irfan who have been willing to give advice and experience in completing the skripsi.

12. My friends in group Telur Guling Putar 2.0: Hadijah Nur Islami Siregar, Rizkia Putri Aditia and Sunita Indira who have always been willing to provide motivation and enthusiasm in studying and doing this skripsi.

13. All of my friends in MESP 17 namely Kevin, Annisa, Paula, Tiffany, Sri, Ezra, David, Retno, Vira, Safira, Kiran, and Adil.

14. Muhtaril Ahda as my bestfriend who always supports me physically and mentally in every situation.

15. All friends who are under one skripsi supervisor, especially for Peronika Sihaloho, Elisabeth Theresia Tambunan and Esra Pasaribu who have given encouragement and shared their thoughts in working on this skripsi.

16. Jihan Chairunnisy Puteri Subekti, Putri Anisya Syafriani Siregar and Rahmah Sya’bani who accompanies the author and provides support and love in working on this skripsi.

17. My other support system called EXO namely Kim Junmyeon, Kim Jongdae, Kim Minseok, Byun Baekhyun, Park Chanyeol, Oh Sehun, Doh Kyungsoo, Zhang Yixing and especially Kim Jongin who have helped lift spirits and provide mental support indirectly.

18. Others friends namely Indah Wahyuwatri, Novita Rizkiyani, Wira Risa Lina, Umasysy Sabillah, Rasyidah Mahira Ridha and all of my friends whose names I cannot mention here who have given a lot of love, support and encouragement to the writer to finish writing this skripsi well.
19. Last but not least, I wanna thank me for believing in me, I wanna thank me for doing this hard work, I wanna thank me for having no days off, I wanna thank me for never quitting, and thank me for being myself in doing this skripsi.

The author realizes that this skripsi still has shortcomings and limitations, however, while expecting constructive criticism and suggestions, the author hopes that this skripsi can be useful for readers and related parties.

Medan, 25 October 2021
Author,

Zilmiah Adnan
IDN. 4173111089