

CHAPTER V

CONCLUSIONS AND SUGGESTIONS

5.1 Conclusions

Based on the research results, the conclusions obtained are:

1. The learning factor that lead to increased learning outcomes is the activeness of students in cycle II and the presentation of questions that are more related to everyday life. The application of the Group Investigation model is based on constructivism, thus requiring students to actively participate in discussions with their group members, because students are required to find their own concepts. This model also allows students to work together and exchange ideas and dare to express their opinions. Student learning outcomes in class X MIPA 2 SMA Negeri 2 Medan experienced an increase from cycle I to cycle II after the *Group Investigation* (GI) learning model was applied. Based on the results of the learning outcomes test in cycle I, the data obtained on the Learning Outcomes Test I class average value was 49.3 with classical completeness of 19.44%. Whereas in the Learning Outcomes Test II, the class average value was 68.03 with classical completeness of 44.44%. In cycle I the average student increased by 18.73. Then in cycle II the data obtained on the Learning Outcomes Test III class average value was 75.21 with classical completeness of 86.11%. Whereas in the IV Learning Outcomes Test, the class average value was 87.00 with a classical completeness of 94.44%. In cycle II the average student increased by 11.79.
2. Student responses to the implementation of the *Group Investigation* learning model in class X MIPA 2 showed positive results. Based on student answers, the average percentage of student answers in cycle I was 85% and the average percentage of student answers in cycle II increased to 90%. This

means that almost all students gave a positive assessment of the implementation of this activity.

3. The results of teacher observations of researchers who applied the Group Investigation learning model in class VII-7 experienced an increase from cycle I to cycle II. Observations in cycle I obtained an average of 3.54 and increased to 3.73 in cycle II with a very good value. This increase occurred because:

- ❖ In the first cycle the apperception given by the researcher to the students was not understood by the students, and in the second cycle the researcher reflected for improvement.
- ❖ when planning the investigation, the time used by researchers exceeds the time specified and in cycle II the time used is correct.
- ❖ during class management in cycle I the researcher did not master the class so the class was not conducive, but in cycle II the researcher was able to fully control the class.
- ❖ In the first cycle the researchers were less assertive during learning and in the second cycle the researchers were more assertive in the learning process.

5.2 Suggestions

The suggestions proposed based on the results of the research are as follows:

1. Teachers should study guidelines for implementing group investigation cooperative learning and implement them in learning. It is proven that the group investigation type cooperative learning model can improve student learning outcomes.
2. For teachers to motivate and encourage students to be more able to work together in groups and have individual responsibility.
3. For teachers to be more able to manage the class in the learning process so that the use of time can also be adjusted according to needs.
4. Class action research will be very beneficial for teachers and students. Therefore, teachers should provide more flexible time for research so that research results can be more optimal.

5. Students should be able to follow each stage in the group investigation type learning process because this will be very beneficial for improving learning outcomes so that they are always active in learning activities in class.
6. For future researchers who will conduct similar research, it is advisable to give student learning outcomes tests with the same number of questions for each test and in terms of time, it is best if the learning outcomes tests are tested at the same time for each test.

