

Name : _____

Written Assignment 5. Due on Wednesday May 16 at the start of class.

Instructions. Staple your solutions to the following problems behind this sheet. Collaboration on homework is encouraged; individually written solutions are required. At the start of each problem, list the sources other than the textbook that you consulted to solve the problem, and all the people you discussed the problem with. For example:

Sources:

- (i) R. Hammack (2013), *Book of Proof*.
- (ii) MathDoctorBob video “BM3. Formal Proofs”

Discussed with: Jane Smith (classmate), John Doe (tutor), Carlos Samuels (TA), Prof. Van Steirteghem, Prof. Holder

If you did not consult any sources or did not discuss the problems with anybody, then you should state this explicitly.

Assignment. Solve the following fromf the Textbook¹

1. Exercise 3(b) on page 180 [Hint: you can model the proof on that of 3(a) which is in Appendix C]
2. Exercise 8(a) on page 181
3. Exercise 8 on page 226
4. Exercise 15(c,d,e) and 16(a,b,c) on page 229
5. Exercise 2 on page 262

¹<https://scholarworks.gvsu.edu/books/9/>