Medgar Evers College – Mathematics

Introduction to Mathematical Proof

MTH 206, Section 001, Spring 2018

Instructor: Bart Van Steirteghem

Name : _____

Written Assignment 4. Due on Wednesday May 9 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 Textbook[1]

1. Exercise 19 page 129
2. Exercise 7 page 138 [Hint: the proposition is true. One way to prove it is to write $n = 2k + 1$ and to consider two cases for the integer k]
3. Exercise 11(c): complete the statement and prove it

[1] https://scholarworks.gvsu.edu/books/9/