
Medgar Evers College – Mathematics

Linear Algebra II

MTH 317, Section 001, Spring 2018

Instructor: Bart Van Steirteghem

Problem Set 8. Due on Wednesday May 2 at the start of class.

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) G. Schay (2012). *A concise introduction to linear algebra*. New York, NY: Springer.

(ii) MathDoctorBob video “Examples of Linear Maps”

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

If you did not consult any sources, or did not discuss the problem with anybody, then state this (for example: “Discussed with nobody.”)

Reading

Before solving the problems below, please read Section 1 of Chapter 3 (pages 99-104) in *LADW*:

https://www.math.brown.edu/~treil/papers/LADW/LADW_2017-09-04.pdf

Problems

Solve the following problems of Section 1 of Chapter 3 (pages 104-105) in *LADW*:

1. Exercise 1.2
2. Exercise 1.3
3. Exercise 1.1 [Give a counterexample when you answer “false” and a short proof or a precise reference when you answer “true”]
4. Exercise 1.4
5. Exercise 1.10