



Norwegian University of Science
and Technology
Department of Mathematical
Sciences

MA1201 Linear Algebra and Geometry

Exercise set 08

Compulsory exercises

Hand in your solutions to these exercises. All answers must be justified.

Chapter 4.5 - Coordinates

Exercise 1 Do exercise 11 in chapter 4.5 of Elementary Linear Algebra.

Exercise 2 Do exercise 13a in chapter 4.5 of Elementary Linear Algebra.

Chapter 4.6 - Dimension

Exercise 3 Do exercise 7 in chapter 4.6 of Elementary Linear Algebra.

Exercise 4 Do exercise 9 in chapter 4.6 of Elementary Linear Algebra (You may assume $n = 3$ if you prefer).

Chapter 4.7 - Change of basis

Exercise 5 Do exercise 1 in chapter 4.7 of Elementary Linear Algebra.

Exercise 6 Do exercise 5 in chapter 4.7 of Elementary Linear Algebra.