

MA1201 Linear Algebra and Geometry

Exercise set 08

## Compulsory exercises

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

## Chapter 4.8 - Row, Column, and Null space

Exercise 1 Do exercise 9a in chapter 4.8 of Elementary Linear Algebra.

Exercise 2 Using the matrices in exercise 9a and 9b, find a basis for the column space.

Exercise 3 Do exercise 11a in chapter 4.8 of Elementary Linear Algebra.

## Chapter 4.9 - Rank–Nullity

Exercise 4 Do exercise 9 in chapter 4.9 of Elementary Linear Algebra.

**Exercise 5** Do exercise 30 in chapter 4.9 of Elementary Linear Algebra.

**Exercise 6** Do exercise 34 in chapter 4.9 of Elementary Linear Algebra.