

Computing for mathematics: week 8

Linear Algebra

Aims of this week

At the end of this lecture students will be:

- Familiar with linear algebra in Sage: Matrices, Matrix multiplication, inverses and determinants

Timeline

Coursework The coursework will be handed out this week.

Lab sheet

- Representing systems of equations in Matrix form;
- Matrix multiplication;
- Solving matrix equations;
- Inverting matrices;
- Connection between inverse and determinants;

Lecture

- 0 - 5 mins: Recap
- 5 - 15 mins: Solution to lab sheet
- 15 - 35 mins: Explanation of coursework
- 35 - 45 mins: Questions?
- 45 - 50 mins: Introduction to next week

After the lecture Students will be given access to lab sheets and pointed towards reading.

Assessment

This will be assessed in the course work.