

# Chapter 1

## Differential Equations

### 1 Introduction

The following are references.

- E Artin, Galois theory, 1994
- A Grothendieck and M Raynaud, Revêtements étales et groupe fondamental, 2002
- I N Herstein, Topics in algebra, 1975
- M Reid, Galois theory, 2014

**Notation.** If  $K$  is a field, or a ring, I denote the **ring of polynomials** with coefficients in  $K$ .

Lecture 1  
Thursday  
10/01/19