

## Lecture 1 — September 3

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This is the danger environment.

## 1.1 My first section heading

**Theorem 1.1.** *This is a neat theorem.***Proof:** Lengthy and technical proof.

$$\sum_{i=1}^n x_i = y. \quad (1.1)$$

□

### 1.1.1 A subsection heading

Here is how to typeset an array of equations.

$$x = y + z \quad (1.2)$$

$$\alpha = \frac{\beta}{\gamma} \quad (1.3)$$

And a table.

Method	Cost	Iterations
Naive descent	12	200
Newton's method	500	30

**Table 1.1.** Comparison of different methods.

### 1.1.2 Yet another subsection

**Corollary 1.2.** *A corollary of Theorem 1.1.*

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