Lecture 1

1 New section starts here

Here you can start writing about the lecture.
Exercise 1. To specify an exercise

1. This is to enumerate things

2. Another item

1.1 Subsection goes here

Here you can write text.

Definition 2. *This is to give a definition.*

Example of an equation

$$P(X(\mathcal{I})) = \frac{1}{Z} \prod_{j \in \mathcal{J}} \phi_j(x(B_j)), \tag{1}$$

and let $G = (\mathcal{I}, E)$ be the associated graph.

Example 3. This is to do an example. Below you can see how to attach a figure.
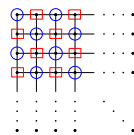

Figure 1: Caption goes here

2 Another section

Here you can write.

References

[1] D. J. C. MacKay, *Information Theory, Inference, and Learning Algorithms*, Cambridge University Press, UK, 2003.

[2] S. Geman and D. Geman, "Stochastic Relaxation, Gibbs Distributions, and the Bayesian Restoration of Images," *IEEE Trans. on Pattern Analysis and Machine Intelligence*, vol. 6, pp. 721–741, 1984.