

Literature and Resources

Textbooks and self-study material to go deeper

The sessions cover the essentials, but a good textbook offers more depth, worked examples, and practice than any 90-minute session can. The recommendations below are the ones we use in this tutorial, and each entry comes with a one-line note on why it might suit you.

Textbooks

- K. Sydsæter, P. J. Hammond, and A. Strøm [1]: The standard reference for this material: thorough, economics-focused, and closely matched to our sessions on functions, differentiation, and optimisation.
- S. T. Tan [2]: A gentler, example-heavy applied text, a good choice if you want more worked business examples and a slower build-up.
- I. Jacques [3]: Clear and accessible, with plenty of self-check exercises, handy if you prefer a step-by-step, business-oriented style.

Online Resources

- **Khan Academy**: Free maths tutorials at every level, with short videos and exercises. Ideal for brushing up on a single topic on demand.
- **3Blue1Brown**: Visual, intuition-first videos on mathematics. The *Essence of Calculus* and *Essence of Linear Algebra* series pair well with our sessions on differentiation, optimisation, and linear systems.
- **Essential Mathematics: Self-study course**: A free self-study course on essential mathematics for M.Sc. programmes at business schools. It mirrors the scope of this tutorial and is a good place to practise independently.

References

Bibliography

- [1] K. Sydsæter, P. J. Hammond, and A. Strøm, *Essential Mathematics for Economic Analysis*, 4th ed. Harlow: Pearson, 2012.
- [2] S. T. Tan, *Applied Mathematics for the Managerial, Life, and Social Sciences*, 7th ed. Boston, MA: Cengage Learning, 2016, p. 1001.
- [3] I. Jacques, *Mathematics for Economics and Business*, 8th ed. in Always Learning. Harlow: Pearson, 2015, p. 660.