

**EBA1180 Mathematics for Data Science**  
**autumn 2023**  
**Exercises**

*... if I couldn't formulate a problem in economic theory mathematically, I didn't know what I was doing.*

R. Lucas

**Lecture 4 and 5**

**Sec. 11.4.1-3, 6.11.4, 11.2, 11.3.2, 11.4.4-10, 4.9.2, 6.11.4, 11.2, 11.3.2:**  
**Geometric series. Annuities. Euler's number and continuous compounding of interest.**

Here are recommended exercises from the textbook [SHSC].

- Section **11.2** exercise 1-3, 5
- Section **4.9** exercise 1, 2, 4, 5
- Section **11.3** exercise 1b, 2b
- Section **11.4** exercise 1-, 6, 7
- Section **11.5** exercise 6
- Section **11.6** exercise 3