- Exercise 1. This is a very simple exercise. It doesn't have any sub-question. Is 57 prime?
- Exercise 2. This exercise has multiple sub-questions.
- **2.1** Give an explicit algebraic formula for $\cos \frac{2\pi}{17}$.
- **2.2** Find a polynomial of which $\cos \frac{\pi}{17}$ is a root.

These identities allowed Gauß to draw a heptadecagon (polygon with seventeen sides) from a ruler-and-compass construction.

2.3 Can all polygons be thus obtained?