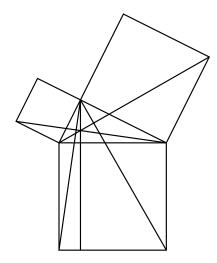
Mathematics 308 — Geometry

Second homework — due Friday, September 19

I will talk in class about the way PostScript assignments are to be handed in.

Exercise 1. Draw in PostScript the following picture, taken from Euclid's Elements. In class I will explain how I want you to use colours.



Use variables a, b here are to be variables, so to change the picture for different a and b you only have to change a couple of lines.

Here and elsewhere, when you are asked to reproduce a picture, you are almost always expected to reproduce its dimensions as closely as you can.

Exercise 2. Draw in PostScript a picture of the French flag (red, white, & blue vertical stripes), with grey lines separating the different colours. Size about $4'' \times 5''$, centred on a page.

Exercise 3. Draw a picture of a regular heptagon (seven sides) centred on a page, radius 1". Of a regular 17-gon!

Exercise 4. Write a PostScript procedure with two arguments r and θ that replaces them by the corresponding x and y.

Exercise 5. Write a PostScript procedure with a single argument x that replaces it by acos(x).