F. Winkler 5 April 2005

**Commutative Algebra & Algebraic Geometry**
SS 2005

(1) Find out about possibilities of plotting curves and surfaces in Maple and/or Mathematica. Which functions are available, what kind of output do they produce?

(2) Find out about the computation of Gröbner bases in Maple and/or Mathematica. Which functions are available, what do they compute?

(3) Search in the library, the internet, etc. about "what is the torsion and the rank of an elliptic curve?".