1. Problems

(1) Please write a program which computes the Weil pairing on an elliptic curve $E$. The first line of the input should be the coefficients of the curve $E$, the second line $m$, and the third and fourth lines a pair of $m$-torsion points $P$ and $Q$.

(2) From the text: 6.17, 6.18, 6.29, 6.32, 6.33.