Homework 37, due December 4
(1) (Problem 2, page 370)

- List the points on the elliptic curve $E: y^{2} \equiv x^{3}-2(\bmod 7)$.
- Find the sum $(3,2)+(5,5)$ on $E$.
- Find the sum $(3,2)+(3,2)$ on $E$.
(2) Write down the addition table for the elliptic curve in the previous problem.
(3) (Problem 5, page 375) Compute the difference $(5,9)-(1,1)$ on the elliptic curve $y^{2} \equiv$ $x^{3}-11 x+11(\bmod 593899)$.

