

**MATH 295A/395A: CRYPTOGRAPHY
HOMEWORK #13**

PROBLEMS FOR ALL

Problem 1. Let E be the elliptic curve given by the equation $y^2 = x^3 + x^2 + 1$ over \mathbb{F}_3 .

- (a) Determine all points of $E(\mathbb{F}_3)$.
- (b) Make an addition table for $E(\mathbb{F}_3)$.