Discrete Structures

IIIT Hyderabad

Monsoon 2020

Tutorial 6

October 5, 2020

Introduction

This Tutorial

- Solving till 1:30PM. After that 2 separate meets.
- After that, doubts till now, about any topic covered.

Question 1

Consider elliptic curve $E_5(2,1)$ or in equation form as -

$$y^2 = x^3 + 2x + 1$$

1.1:: Find all points in the curve.
1.2: If $P = (1,3)$ and $Q = (3,2)$ lie on the above curve, find -

1. -P
2. P + Q
3. 2Q
* -2P + 2Q