

PMath 940
Topics in Number Theory: Elliptic Curves
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List of Topics

1. Weierstrass form
2. Isogenies and dual isogenies
3. Differential forms
4. Elliptic curves over \mathbb{C} and \mathbb{F}_p
5. Formal groups
6. Elliptic curves over local fields
7. Elliptic curves over global fields (Mordell-Weil)
8. Arithmetic statistics