

Math 374

HW for Wednesday: read Chapter 1
+ do exercises

* www.reed.edu/~davidp/374

Will be using Sage Math Cloud and, possibly, nb.mit.edu.

Origins

Divisor theory

Lorenzini '89

arithmetic alg. geo.

Baker '07

tropical cometry

Abelian Sandpile Model

BTW, Dhar ~ '90

statistical physics

pattern formation

Self-organized criticality

Discrete potential theory

Biggs ~ '99

Edges of graph = wires
connect battery to nodes

Kirchoff laws

First goal: Riemann - Roch theorem for graphs (Baker & Norine '07)

Demonstrations using Bryan Head's software

- * introduction to program
- * Threshold time demo.