Math/CS 103 Professor: Padraic Bartlett
Handout 8: Affine Planes

UCSB 2014

1. Prove that any finite affine plane of order n contains n^2 many points.

- 2. Take any finite affine plane of order n. Prove that there are exactly $n^2 + n$ lines in this plane, which can be partitioned into n + 1 distinct parallel classes, each of which contains n lines.
- 3. Find an affine plane of order 4.

Week 4