

Introduction to Combinatorics

Combinatorics of convex sets

Wojciech Nadara, class 12, 2020-05-28

1. For every member of \mathcal{F} consider “good” translates of C .

2. A point x is a centrepoint iff x is in every open half-space H containing more than $\frac{dn}{d+1}$ points of X .

3. Consider certain sets of hyperplanes parametrized in a natural way by vectors in \mathbb{R}^{d+1} .

4. This exercise is similar to Exercise 2.7.

5. Use Brunn-Minkowski inequality.