Samasya

Samasya is a mathematics discussion and problem solving club. We discuss a variety of mathematical topics and solve problems as well. We encourage participants to have a look at these problemsbefore the meeting. Discussion, however, will not be limited to these problems. Participants can bring their own problems or mathematical ideas they wish to discuss.

Date: 28th August, 2015
Time: 9:30 p.m.
Venue: OPB LAN Room

Problem 1. Given a quadrilateral with rational area, is it possible to dissect it into finitely many triangles, each of which has a finite area?

Problem 2. Given a polygon of area A, show that one can, using finitely many straight edge cuts and joins, cut up the polygon and reassemble it into any other polygon of area A.

Problem 3. Is a non-empty product of distinct swaps in a permutation group is ever identity? Either prove it's true, or provide a counter example.