0. Remember to start with the „thrackle” exercises from the previous sheet, that will be our main topic today. One of them is modified:

1. Show that if a bipartite graph contains a subdivision of $K_{3,3}$, then it is not a „thrackle”.

2. Consider all the planar drawings of graph $G$. Prove that there is always one with the least number of crossings, such that any two edges cross at most once.

3. (HW) Suppose that the biggest distance among $n$ points in the plane is 1. How many times can it occur?

4. * Give a geometric graph with $n$ vertices and as many edges as you can such that it does not contain 3 pairwise disjoint edges.

New exercises and notes can be found at http://dcg.epfl.ch/page78315.html
Solutions to selected homeworks should be sent to doemoetoer.palvoelgyi@epfl.ch or handed in at the beginning of the next session.