

Math 4990 Problem Set 6*Due Tuesday, Oct 20, 2015 in class*

Please refer to previous problem sets for instructions, including but not limited to the collaboration policy.

ERRATUM

p.65, Unsolved Problem 11, “exponential number of ~~triangles~~ triangulations”

ASSIGNMENT

Liberally peruse **pages 59–65** of [DO].

[DO] Exercises 3.2, 3.3, 3.4, and 3.7.

Problem 5. Let $S \subset \mathbb{R}^2$ be a finite set of points in the plane such that every three of them can be covered by a circular disc of radius r . Show that S can be covered by a circular disc of radius r .

Problem 6. Prove that a polygon of perimeter p can be covered by a circular disc of diameter $p/2$.