

**Math 4990 Problem Set 8***Due Tuesday, Nov 3, 2015 in class*

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

## ERRATUM

p.83, Theorem 3.49, “and  $C$  outside the circle, where  $A$ ,  $B$ , and  $C$  lie on the same side of the line through  $P$  and  $Q$ , angle  $PAQ$ ””

## ASSIGNMENT

Liberally peruse **pages 79–86, 103–116** of [DO].

[DO] Exercises 3.24, 3.56, 4.14, 4.15, and 4.29.

**Problem 6.** Prove that every two triangulations of a convex  $n$ -gon are connected by at most  $2n$  flips. (For no credit, think about whether this is true for non-convex polygons.)