

**Computational Geometry****Exercise Set 12****HS09**

URL: <http://www.ti.inf.ethz.ch/ew/courses/CG09/>

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There will be no exercise session on December 3rd. However, you are welcome to ask questions about these exercises by email or the week after and, of course, to hand in your solutions.

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**Exercise 1**

Prove that  $\lambda_2(n) = 2n - 1$ .

**Exercise 2**

Show that every Davenport-Schinzel sequence of order 2 can be realized by the lower envelope of  $n$  parabolas.

**Exercise 3**

Let  $P$  be a convex polygon with  $n$  vertices. Find a bijection between triangulations of  $P$  and Davenport-Schinzel sequences of order 2 over  $n - 1$  symbols of maximum length.