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Deborah Oliveros* (dolivero@matem.unam.mx), Instituto de Matemáticas, UNAM, Circuito Exterior, Area de la Investigación Científica, C.U., 04510 México, Mexico, and **Clemens Huemer, Pablo Pérez-Lantero** and **Birgit Vogtenhuber**. *Alternating sums of polygons in planar point sets*. Preliminary report.

Given a set of points S in general position, we will show some known and unknown results about the behavior of alternating sums on the number of empty and none empty convex polygons with vertices in S . (Received January 14, 2016)