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**Max Glick\*** (mglick@umn.edu). *The Devron property.*

Say a discrete dynamical system possesses the Devron property if it carries a "special" class of inputs after a predictable number of steps to a class of highly degenerate outputs. This definition is inspired by a result of R. Schwartz that the  $n - 1$  iterate of the pentagram map takes an axis-aligned  $2n$ -gon to a single point. We show that this phenomenon is widespread, particularly in systems with a geometric interpretation. Known examples include both generalized pentagram maps and also seemingly unrelated systems such as Adler's polygon recutting and a new system involving circle intersection. An extra feature for the pentagram map, established by REU student Zijian Yao, is that the point of collapse for an axis-aligned polygon equals the center of mass of its vertices. (Received July 29, 2014)