1171-52-152 Daniel McGinnis* (dam1@iastate.edu), Ames, IA. A family of convex sets in the plane satisfying the $(4,3)$-property can be pierced by 9 points.
A family of compact, convex sets in $\mathbb{R}^{2}$ has the (4,3)-property if for every four sets in the family, three have a non-empty intersection. In 2001, Gyárfás, Kleitman, and Tóth showed that the sets in a family of compact, convex sets in $\mathbb{R}^{2}$ with the ( 4,3 )-property can be pierced by 13 points. Here, we improve this result by showing that 9 points suffice. (Received August 09, 2021)

