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Daniel McGinnis*, dam1@iastate.edu. *A family of convex sets in the plane satisfying the $(4, 3)$ -property can be pierced by 9 points.*

A family of sets is said to have the (p, q) -property if for every p sets, q have a point in common. We prove that every finite family of convex sets in the plane satisfying the $(4, 3)$ -property can be pierced by 9 points. This improves the bound of 13 proved by Gyárfás, Kleitman, and Tóth in 2001. (Received September 21, 2021)