1033-54-196 **Jason Cantarella** and **Elizabeth Denne\***, Dept. Mathematics and Statistics, Smith College, Northampton, MA 01063, and **John McCleary**. *Further results on the "Square Peg" problem*. Given a simple closed curve (a Jordan curve)  $\gamma$  in  $\mathbb{R}^2$ , can we find four points on  $\gamma$  that form a square? It is natural to ask if other polygons may be inscribed in Jordan curves. Many authors have considered both problems; for example proving existence of inscribed squares with various regularity assumptions. Previously, we extended the proof of existence of inscribed squares to a larger class of curves including curves of finite total curvature with no cusps. In this talk we discuss results about polygons. (Received September 10, 2007)