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Extreme areas of triangles in Poncelet's closure theorem.

Forum Geom. 4, 23-26 (2004).

Abstract: Among the triangles with the same incircle and circumcircle, we determine the ones with maximum and minimum areas. These are also the ones with maximum and minimum perimeters and sums of altitudes.

Classification: G90 G40

Keywords: triangle geometry; extremal problems in geometry