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Relative Newton numbers. (English) Zbl 0765.52016

Monatsh. Math. 114, No. 2, 149-160 (1992).

We describe a method for estimating the number of congruent copies of a convex body C in the plane that can touch another given body K without having interior points in common. This applies also to the case $K = C$ thus giving bounds for the usual Newton number $N(K)$ of K . Especially we get $N(T) = 21$ for the isosceles triangle having base angles of 30° .

Reviewer: Gerd Wegner

MSC:

52C15 Packing and covering in 2 dimensions (aspects of discrete geometry)

52A10 Convex sets in 2 dimensions (including convex curves)

Keywords:

congruent copies; convex body; Newton number

Full Text: [DOI](#) [EuDML](#)

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