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Counting paths between points on a circle

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Abstract: The paper deals with counting sets of given magnitude whose elements are self-avoiding paths with nodes from a fixed set of points on a circle. Some of the obtained formulae provide new properties of entries in “The On-line Encyclopaedia of Integer Sequences”, while others generate new entries therein.

Keywords: enumerative combinatorics; self-avoiding path; convex polygon

AMS Subject Classification: 05A15

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