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magic circles

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Given n circles which intersect k times, the set of circles is referred to as *magic circles* if there exists a numbering (using $\{1, \dots, k\}$) of the intersections of the n circles such that the sum of the numbers at the intersections along each circle is the same constant for all circles.

Further reference: <http://www.cgl.uwaterloo.ca/~smann/Magic/>