

## Werk

**Label:** Article

**Jahr:** 1976

**PURL:** [https://resolver.sub.uni-goettingen.de/purl?31311157X\\_0101|log68](https://resolver.sub.uni-goettingen.de/purl?31311157X_0101|log68)

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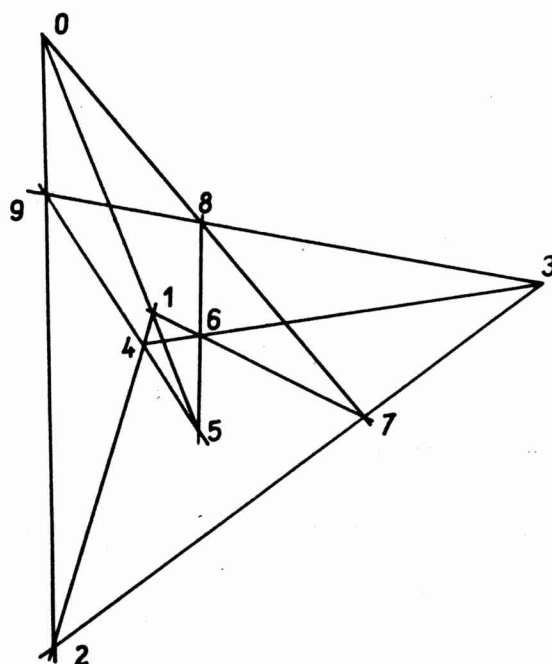
## 24 SELF-INScribed DECAGONS IN DESARGUES CONFIGURATION $10_3$

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(Received March 25, 1975)

In this note we shall show that the Desargues configuration  $10_3$  can be regarded as a set of 24 self-inscribed decagons having a certain group structure.

The Desargues configuration  $10_3$  is a figure of 10 lines and 10 points, 3 points on each line and 3 lines through each point.



The existence of this configuration is a consequence of the Desargues theorem which states: *If two triangles are perspective from a point then they are perspective from a line.*

This configuration can be regarded in 10 ways as a pair of triangles in perspective, since every pair of triangles formed by the points  $ik, il, im$  and  $jk, jl, jm$  are perspective from the vertex  $ij$  and the side  $klm$ .

The Desargues configuration reveals five pairs of quadrangles and quadrilaterals,