

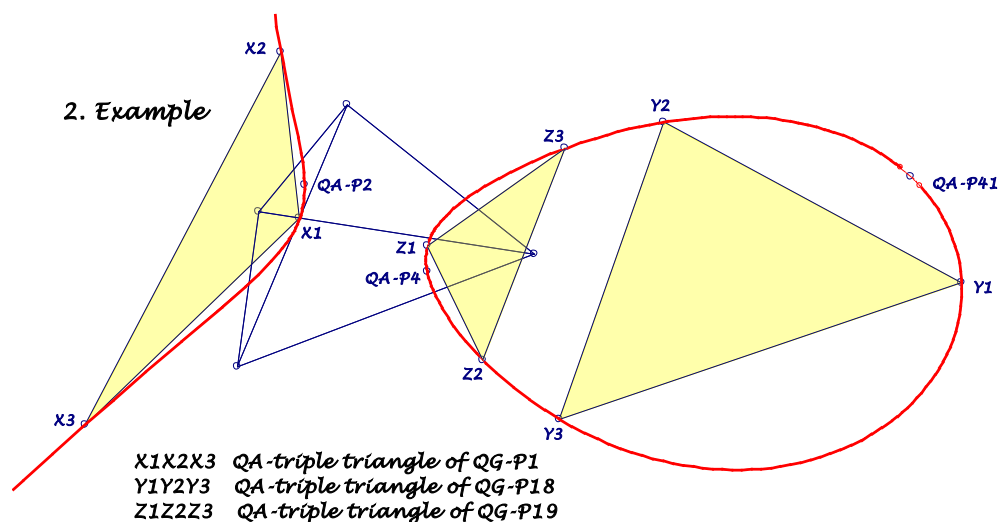
Background for these notes is:
Chris van Tienhoven: Encyclopedia of Quadri-Figures
<http://www.chrisvantienhoven.nl/>

Cubics of Generalized Cyclologic Centers

Generalized cyclologic centers are defined by Tsihong Lau

<https://groups.yahoo.com/neo/groups/AdvancedPlaneGeometry/conversations/messages/3275>

here reduced to a starting constellation of two cyclologic triangles and their cyclologic centers. Then the generalized cyclologic centers give a cubic (see #1988), here reduced to perspective cyclologic QA-triple triangles (see QA-Tr-4). There are triples of pairwise perspective QA-triple triangles with the same cubic of generalized cyclologic centers. Two examples are already described in #1988 and #1990, here a third one is researched.



The cubic of generalized cyclologic centers shall be shortened by CGCC.

- Example (see #1988 and #1989)
The QA-triple triangles of QG-P1, QL-P1, QG-P16
... have pairwise the same cubic QA-Cu1 as CGCC.
- Example (see #1990, #1991 and #1992)
The QA-triple triangles of QG-P1, QG-P18, QG-P19
... have pairwise the same cubic QA-Cu7 as CGCC.
This cubic is QL-Cu1 for the quadrilateral of the QA-triple triangle of QG-P18 and the perspective line of the three QA-triple triangles.

3. Example

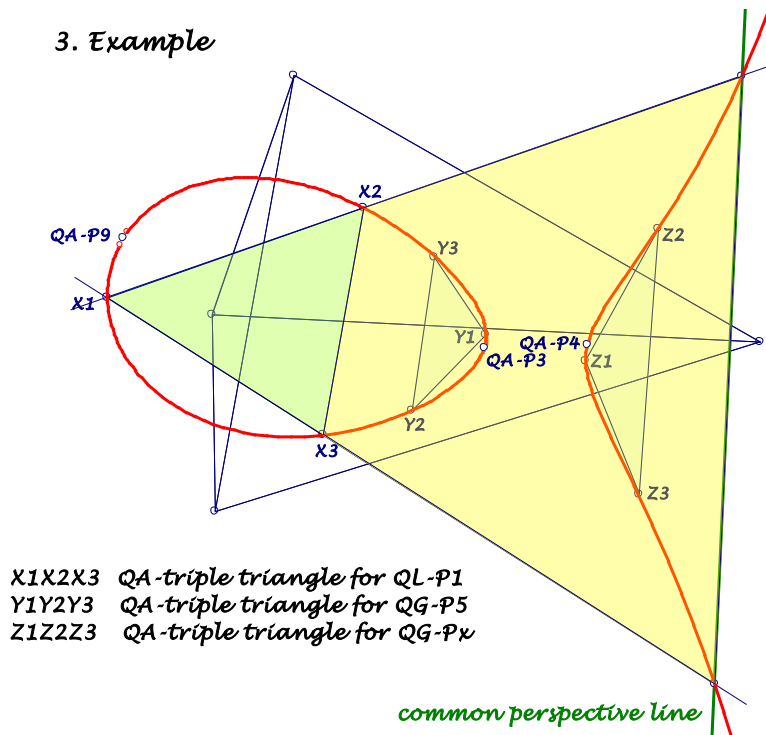
In the table *QA-Tr-4* there remains only one pair of perspective cyclologic *QA*-triple triangles wrt *QG-P5* and *QL-P1*.

If we define a new *QG*-point *QG-Px*, we can consider a third *QA*-triple triangle:

Let *QG-Px* be the image of the Miquel point *QL-P1* wrt the Möbius transformation, centered in *QA-P3* and swapping *QA-P4* and *QA-P9*.

The *QA*-triple triangles of *QG-P5*, *QL-P1*, *QG-Px* ... have pairwise the same cubic *QA-Cux* as *CGCC*. This *CGCC* is *QL-Cu1* for the quadrilateral of the Miquel triangle *QA-Tr2* and the perspective line of the three *QA*-triple triangles.

3. Example



This *CGCC* is a nonpivotal isogonal circular cubic wrt the Miquel triangle.

Final remark:

The three *QG-Px* for a quadrilateral are collinear. The line bears *CSC(QL-P17)* and is orthogonal to *QL-P26.CSC(QL-P17)*.