

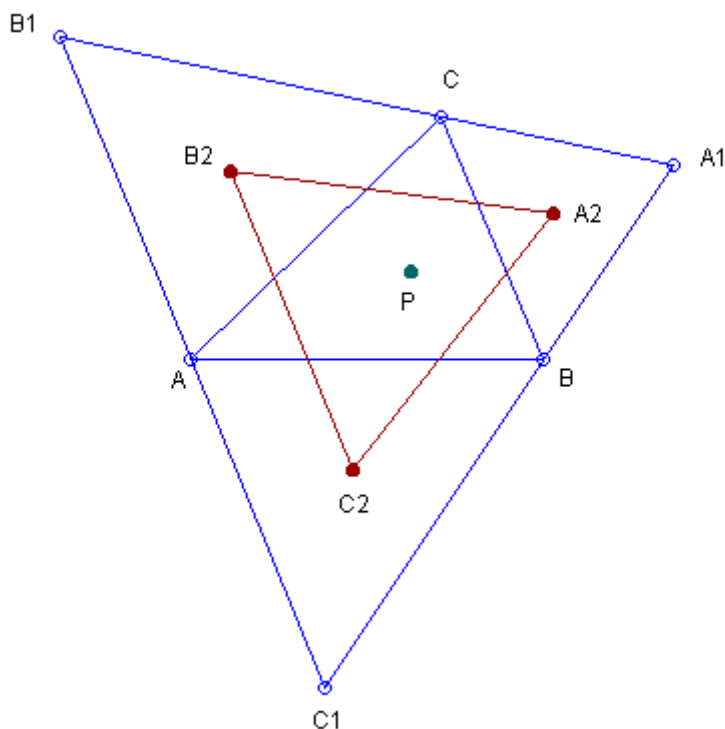
Anticevian Corner Triangles

Deko Dekov

Abstract. By using the computer program "Machine for Questions and Answers", we study perspectors of basic triangles and triangles of triangle centers of anticevian corner triangles.

Given a triangle ABC and a triangle center of kind 1, labeled by P . Let $A_1B_1C_1$ be the anticevian triangle of P . Construct triangle centers A_2, B_2, C_2 of kind 2 (possibly different from the kind 1) of triangles A_1BC, B_1CA, C_1AB , respectively. We call triangle $A_2B_2C_2$ the *Triangle of the Triangle Centers of kind 2 of the Anticevian Corner triangles of the Triangle Center of kind 1*.

See the Figure:



P - Triangle Center of kind 1;

$A_1B_1C_1$ - Anticevian Triangle of P ;

A_2, B_2, C_2 - Triangle Centers of kind 2 of triangles A_1BC, B_1CA, C_1AB , respectively;

$A_2B_2C_2$ - Triangle of the Triangle Centers of kind 2 of the Anticevian Corner Triangles of

the Triangle Center of kind 1.

In this Figure:

P - Incenter;

$A_1B_1C_1$ - Anticevian Triangle of the Incenter = Excentral Triangle;

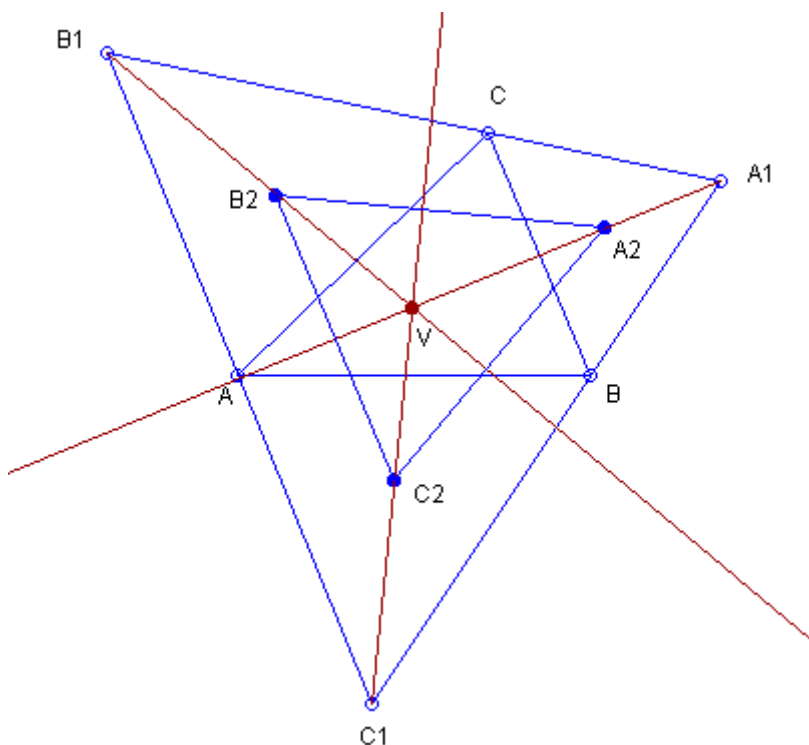
A_2, B_2, C_2 - Centroids of triangles A_1BC, B_1CA, C_1AB , respectively;

$A_2B_2C_2$ - Triangle of the Centroids of the Anticevian Corner Triangles of the Incenter.

Known result (the reader is invited to submit a note/paper with additional references):

Triangle ABC and the Triangle of the Incenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Second de Villiers Point.

See the Figure:



$A_1B_1C_1$ - Anticevian Triangle of the Incenter = Excentral Triangle;

$A_2B_2C_2$ - Triangle of the Incenters of the Anticevian Corner Triangles of the Incenter;

V - Second de Villiers Point = perspector of triangles $A_1B_1C_1$ and $A_2B_2C_2$.

Examples

The Machine for Questions and Answers produces examples of perspectors between triangles and Anticevian Corner Triangles. A few examples are given below.

Triangle ABC and the Triangle of the Incenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Second de Villiers Point.

Triangle ABC and the Triangle of the Circumcenters of the Anticevian Corner Triangles of

the Incenter are perspective with perspector the Incenter.

Triangle ABC and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Incenter are homothetic with homothetic center the Spieker Center.

Triangle ABC and the Triangle of the Incenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Spieker Center.

Triangle ABC and the Triangle of the Centroids of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Centroid.

Triangle ABC and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Nine-Point Center.

Triangle ABC and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Circumcenter.

Triangle ABC and the Triangle of the Nine-Point Centers of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Complement of the Nine-Point Center.

Triangle ABC and the Triangle of the Symmedian Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Symmedian Point of the Medial Triangle.

Triangle ABC and the Triangle of the Gergonne Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Mittenpunkt.

Triangle ABC and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Incenter.

Triangle ABC and the Triangle of the Mittenpunkts of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Complement of the Mittenpunkt.

Triangle ABC and the Triangle of the Spieker Centers of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Complement of the Spieker Center.

Triangle ABC and the Triangle of the de Longchamps Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Orthocenter.

Triangle ABC and the Triangle of the Bevan Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Midpoint of the Incenter and the Orthocenter.

Triangle ABC and the Triangle of the Internal Centers of Similitude of the Incircles and the Circumcircles of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Internal Center of Similitude of the Nine-Point Circle and the Spieker Circle.

Triangle ABC and the Triangle of the External Centers of Similitude of the Incircles and the

Circumcircles of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the External Center of Similitude of the Nine-Point Circle and the Spieker Circle.

Triangle ABC and the Triangle of the Equal Parallelians Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Isotomic Conjugate of the Incenter.

Triangle ABC and the Triangle of the Centers of the Fuhrmann Circles of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Midpoint of the Circumcenter and the Incenter.

Triangle ABC and the Triangle of the Centers of the Orthocentroidal Circles of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Midpoint of the Centroid and the Circumcenter.

Triangle ABC and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Orthocenter are homothetic with homothetic center the Orthocenter.

Triangle ABC and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Kosnita Point.

Triangle ABC and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Nine-Point Center.

Triangle ABC and the Triangle of the First Feuerbach Points of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Centroid.

Triangle ABC and the Triangle of the Kiepert Centers of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Centroid.

The Incentral Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Incentral Triangle and the Triangle of the Kosnita Points of the Anticevian Corner Triangles of the Incenter are homothetic with homothetic center the Isogonal Conjugate of the Spieker Center.

The Incentral Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Incenter.

The Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Mittenpunkt.

The Medial Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Circumcenter.

The Medial Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Incenter are homothetic with homothetic center the Incenter.

The Medial Triangle and the Triangle of the Nine-Point Centers of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Spieker Center.

The Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Circumcenter are perspective with perspector the Symmedian Point.

The Medial Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Orthocenter are homothetic with homothetic center the de Longchamps Point.

The Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Mittenpunkt are perspective with perspector the Incenter.

The Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the First Feuerbach Point are perspective with perspector the Center of the Stevanovic Circle.

The Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Spieker Center are perspective with perspector the Grinberg Point.

The Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Grinberg Point are perspective with perspector the Spieker Center.

The Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Brocard Midpoint are perspective with perspector the Symmedian Point of the Medial Triangle.

The Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Center of the Stevanovic Circle are perspective with perspector the First Feuerbach Point.

The Orthic Triangle and the Triangle of the Prasolov Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Perspector of the Orthic Triangle and the Excentral Triangle.

The Orthic Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Orthocenter of the Tangential Triangle.

The Orthic Triangle and the Triangle of the de Longchamps Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Orthocenter.

The Orthic Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Orthocenter are perspective with perspector the Orthocenter.

The Orthic Triangle and the Triangle of the Inner Kenmotu Points of the Anticevian Corner Triangles of the Orthocenter are perspective with perspector the Inner Kenmotu Point.

The Orthic Triangle and the Triangle of the Outer Kenmotu Points of the Anticevian Corner

Triangles of the Orthocenter are perspective with perspector the Outer Kenmotu Point.

The Orthic Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Gibert Point.

The Orthic Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Orthocenter of the Tangential Triangle.

The Orthic Triangle and the Triangle of the Inner Vecten Points of the Anticevian Corner Triangles of the Inner Kenmotu Point are perspective with perspector the Outer Kenmotu Point.

The Orthic Triangle and the Triangle of the Inner Vecten Points of the Anticevian Corner Triangles of the Outer Kenmotu Point are perspective with perspector the Inner Kenmotu Point.

The Intouch Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are homothetic with homothetic center the External Center of Similitude of the Incircle and the Circumcircle.

The Intouch Triangle and the Triangle of the de Longchamps Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Intouch Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Nagel Point of the Anticomplementary Triangle.

The Intouch Triangle and the Triangle of the Bevan Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Incenter.

The Extouch Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Bevan Point.

The Extouch Triangle and the Triangle of the Gibert Points of the Anticevian Corner Triangles of the Incenter are homothetic with homothetic center the Circumcenter.

The Extouch Triangle and the Triangle of the Incenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Bevan Point.

The Extouch Triangle and the Triangle of the Gergonne Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Gergonne Point of the Anticomplementary Triangle.

The Excentral Triangle and the Triangle of the Incenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter of the Excentral Triangle.

The Excentral Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Mittenpunkt.

The Excentral Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are homothetic with homothetic center the Incenter.

The Excentral Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Bevan Point.

The Excentral Triangle and the Triangle of the Symmedian Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Centroid of the Excentral Triangle.

The Excentral Triangle and the Triangle of the Kosnita Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Circumcenter.

The Excentral Triangle and the Triangle of the Internal Centers of Similitude of the Incircles and the Circumcircles of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Gergonne Point of the Excentral Triangle.

The Excentral Triangle and the Triangle of the External Centers of Similitude of the Incircles and the Circumcircles of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Nagel Point of the Excentral Triangle.

The Excentral Triangle and the Triangle of the Prasolov Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Perspector of the Orthic Triangle and the Excentral Triangle.

The Excentral Triangle and the Triangle of the Incenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Bevan Point.

The Excentral Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Incenter.

The Excentral Triangle and the Triangle of the Mittenpunkts of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Mittenpunkt.

The Excentral Triangle and the Triangle of the First Feuerbach Points of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Mittenpunkt.

The Excentral Triangle and the Triangle of the Kiepert Centers of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Mittenpunkt.

The Anticomplementary Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Incenter are homothetic with homothetic center the Nagel Point.

The Anticomplementary Triangle and the Triangle of the Incenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Nagel Point.

The Anticomplementary Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Centroid.

The Anticomplementary Triangle and the Triangle of the Circumcenters of the Anticevian

Corner Triangles of the Centroid are homothetic with homothetic center the Orthocenter.

The Anticomplementary Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the de Longchamps Point.

The Anticomplementary Triangle and the Triangle of the Nine-Point Centers of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Circumcenter.

The Anticomplementary Triangle and the Triangle of the Symmedian Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Symmedian Point of the Anticomplementary Triangle.

The Anticomplementary Triangle and the Triangle of the Gergonne Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Gergonne Point of the Anticomplementary Triangle.

The Anticomplementary Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Nagel Point of the Anticomplementary Triangle.

The Anticomplementary Triangle and the Triangle of the Mittenpunkts of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Gergonne Point.

The Anticomplementary Triangle and the Triangle of the Spieker Centers of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Incenter.

The Anticomplementary Triangle and the Triangle of the Grinberg Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Isotomic Conjugate of the Incenter.

The Anticomplementary Triangle and the Triangle of the Brocard Midpoints of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Isotomic Conjugate of the Symmedian Point.

The Anticomplementary Triangle and the Triangle of the Kiepert Centers of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Steiner Point.

The Anticomplementary Triangle and the Triangle of the de Longchamps Points of the Anticevian Corner Triangles of the Orthocenter are perspective with perspector the de Longchamps Point.

The Anticomplementary Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Orthocenter.

The Anticomplementary Triangle and the Triangle of the First Feuerbach Points of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center

the Centroid.

The Anticomplementary Triangle and the Triangle of the Kiepert Centers of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Centroid.

The Tangential Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Circumcenter.

The Tangential Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Circumcenter.

The Tangential Triangle and the Triangle of the Prasolov Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Orthocenter of the Tangential Triangle.

The Circum-Incentral Triangle and the Triangle of the Kosnita Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Kiepert-Parry Point.

The Circum-Incentral Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Circumcenter.

The Circum-Incentral Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Incenter.

The Circum-Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Centroid.

The Circum-Medial Triangle and the Triangle of the Symmedian Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Kiepert-Parry Point.

The Circum-Medial Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Kiepert-Parry Point.

The Circum-Medial Triangle and the Triangle of the Symmedian Points of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Far-Out Point.

The Circum-Medial Triangle and the Triangle of the First Feuerbach Points of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Centroid.

The Circum-Medial Triangle and the Triangle of the Kiepert Centers of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Centroid.

The Circum-Orthic Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Kiepert-Parry Point.

The Circum-Orthic Triangle and the Triangle of the de Longchamps Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the

Orthocenter.

The Circum-Orthic Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Circumcenter are perspective with perspector the Kiepert-Parry Point.

The Circum-Orthic Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Orthocenter are perspective with perspector the Orthocenter.

The Circum-Orthic Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Inverse of the Orthocenter in the Circumcircle.

The Circum-Orthic Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Kiepert-Parry Point.

The Euler Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Center of the Orthocentroidal Circle.

The Euler Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Centroid.

The Euler Triangle and the Triangle of the Nine-Point Centers of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Nine-Point Center.

The Euler Triangle and the Triangle of the de Longchamps Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Orthocenter.

The Euler Triangle and the Triangle of the Bevan Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the External Center of Similitude of the Bevan Circle and the Nine-Point Circle.

The Euler Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Orthocenter are homothetic with homothetic center the Orthocenter.

The Euler Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Center of the Orthocentroidal Circle.

The Euler Triangle and the Triangle of the First Feuerbach Points of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Nine-Point Center.

The Euler Triangle and the Triangle of the Kiepert Centers of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Nine-Point Center.

The Euler Triangle and the Triangle of the Inner Napoleon Points of the Anticevian Corner Triangles of the Second Isodynamic Point are perspective with perspector the Inner Fermat

Point.

The Euler Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Center of the Stevanovic Circle are perspective with perspector the First Feuerbach Point.

The Intangents Triangle and the Triangle of the de Longchamps Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Intangents Triangle and the Triangle of the Bevan Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Incenter.

The Intangents Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Moses Point.

The Extangents Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Bevan Point.

The Extangents Triangle and the Triangle of the Incenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Bevan Point.

The Mixtilinear Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Mixtilinear Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Incenter.

The Fuhrmann Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Circumcenter.

The Fuhrmann Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Nagel Point.

The Fuhrmann Triangle and the Triangle of the Incenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Nagel Point.

The Mid-Arc Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Mid-Arc Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Incenter.

The Reflection Triangle and the Triangle of the de Longchamps Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Orthocenter.

The Reflection Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Orthocenter are perspective with perspector the Orthocenter.

The Reflection Triangle and the Triangle of the Second Isodynamic Points of the Anticevian Corner Triangles of the Inner Fermat Point are perspective with perspector the Second

Isodynamic Point.

The First Brocard Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Second Beltrami Point are perspective with perspector the Circumcenter.

The Fourth Brocard Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Centroid.

The Fourth Brocard Triangle and the Triangle of the First Feuerbach Points of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Centroid.

The Fourth Brocard Triangle and the Triangle of the Kiepert Centers of the Anticevian Corner Triangles of the Symmedian Point are perspective with perspector the Centroid.

The Yff Central Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are homothetic with homothetic center the Dimovski Point.

The de Villiers Triangle and the Triangle of the Bevan Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Malfatti Central Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Malfatti Central Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Incenter.

The Lucas Central Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Circumcenter.

The Reflected Neuberg Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Second Beltrami Point are perspective with perspector the Circumcenter.

The Hexyl Triangle and the Triangle of the de Longchamps Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Hexyl Triangle and the Triangle of the Kosnita Points of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Circumcenter.

The Hexyl Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Bevan Point.

The Hexyl Triangle and the Triangle of the Bevan Points of the Anticevian Corner Triangles of the Centroid are perspective with perspector the Incenter.

The Johnson Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Circumcenter.

The Johnson Triangle and the Triangle of the Centroids of the Anticevian Corner Triangles

of the Circumcenter are perspective with perspector the Kiepert-Parry Point.

The Inner Johnson-Yff Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Inner Johnson-Yff Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Second Feuerbach Point.

The Inner Johnson-Yff Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Moses Point.

The Inner Johnson-Yff Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Incenter.

The Inner Johnson-Yff Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the Second Feuerbach Point.

The Outer Johnson-Yff Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter are perspective with perspector the Incenter.

The Outer Johnson-Yff Triangle and the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the First Feuerbach Point.

The Outer Johnson-Yff Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Inverse of the Incenter in the Circumcircle.

The Outer Johnson-Yff Triangle and the Triangle of the Nagel Points of the Anticevian Corner Triangles of the Centroid are homothetic with homothetic center the Incenter.

The Outer Johnson-Yff Triangle and the Triangle of the Orthocenters of the Anticevian Corner Triangles of the Symmedian Point are homothetic with homothetic center the First Feuerbach Point.

Invitation

The reader is invited to submit a note/paper containing synthetic proofs of results from the above list.

Definitions

We use the definitions in accordance with [1 - 6].

The Level

The Machine for Questions and Answers is used to produce results in this paper. Currently the Machine has 6 levels of depths - 0,1,2,3,4,5. We use for this paper the level 0, that is, the

Machine produces only elementary results. If we need deeper investigation, we have to use a level bigger than 0. Since the Machine for Questions and Answers produces too many results, it is suitable we to use bigger levels upon request, that is, for specific questions.

Thanks

The figures in this note are produced by using the program C.a.R. (Compass and Ruler), an amazing program created by Rene Grothmann. The Grothmann's program is available for download in the Web: [Rene Grothmann's C.a.R.](#). It is free and open source. The reader may verify easily the statements of this paper by using C.a.R. Many thanks to Rene Grothmann for his wonderful program.

References

1. Quim Castellsaguer, The Triangles Web, <http://www.xtec.es/~qcastell/ttw/ttweng/portada.html>
2. D. Dekov, Computer-Generated Encyclopedia of Euclidean Geometry, First Edition, 2006, <http://www.dekovsoft.com/>
3. D. Dekov, Triangulation Triangles, Journal of Computer-Generated Euclidean Geometry, volume 2, 2007, <http://www.dekovsoft.com/j/>
4. C. Kimberling, Encyclopedia of Triangle Centers, <http://faculty.evansville.edu/ck6/encyclopedia/>
5. Eric W. Weisstein, MathWorld - A Wolfram Web Resource. <http://mathworld.wolfram.com/>
6. Paul Yiu, Introduction to the Geometry of the Triangle, 2001, <http://www.math.fau.edu/yiu/geometry.html>

Publication Date: 9 November 2007

Dr.Deko Dekov, ddekov@dekovsoft.com.