

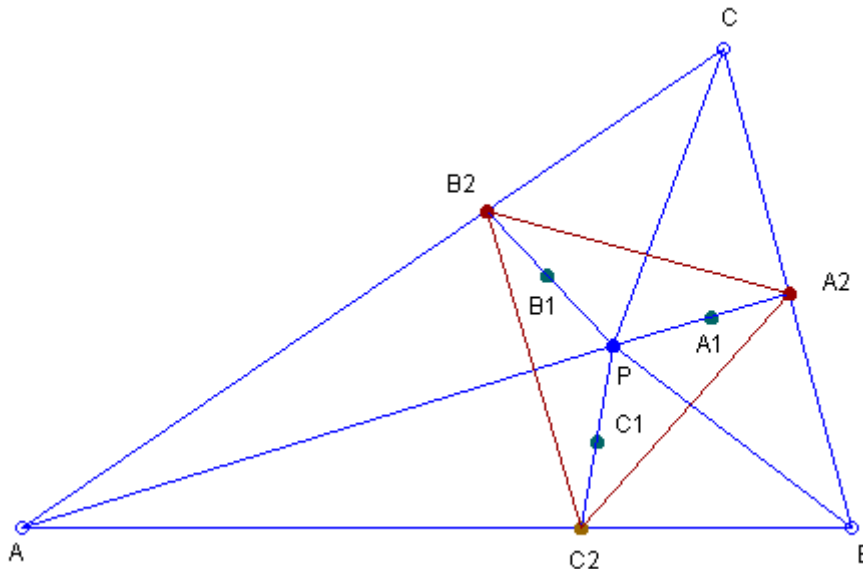
Stevanovic Triangles

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Abstract. We define Stevanovic triangles and by using the computer program "Machine for Questions and Answers", we study perspectors of basic triangles and Stevanovic triangles.

Given a triangle ABC and a triangle center of kind 1, labeled by P . Construct triangle centers A_1, B_1, C_1 of kind 2 (possibly different from the kind 1) of triangles BCP, CAP, ABP , respectively. Denote by A_2 the point of intersection of lines PA_1 and BC . Cyclically define B_2 and C_2 . We call triangle $A_2B_2C_2$ the *Stevanovic Triangle of the Triangle Centers of kind 2 of the Triangulation triangles of the Triangle Center of kind 1*.

See the Figure:



P - Triangle Center of kind 1;

A_1, B_1, C_1 - Triangle Centers of kind 2 of triangles BCP, CAP, ABP , respectively;

$A_2B_2C_2$ - Stevanovic Triangle of the Triangle Centers of kind 2 of the Triangulation triangles of the Triangle Center of kind 1.

In this Figure:

P - Incenter of triangles ABC ;

A_1, B_1, C_1 - Incenters of triangles BCP, CAP, ABP , respectively;

$A_2B_2C_2$ - Stevanovic Triangle of the Incenters of the Triangulation triangles of the Incenter;

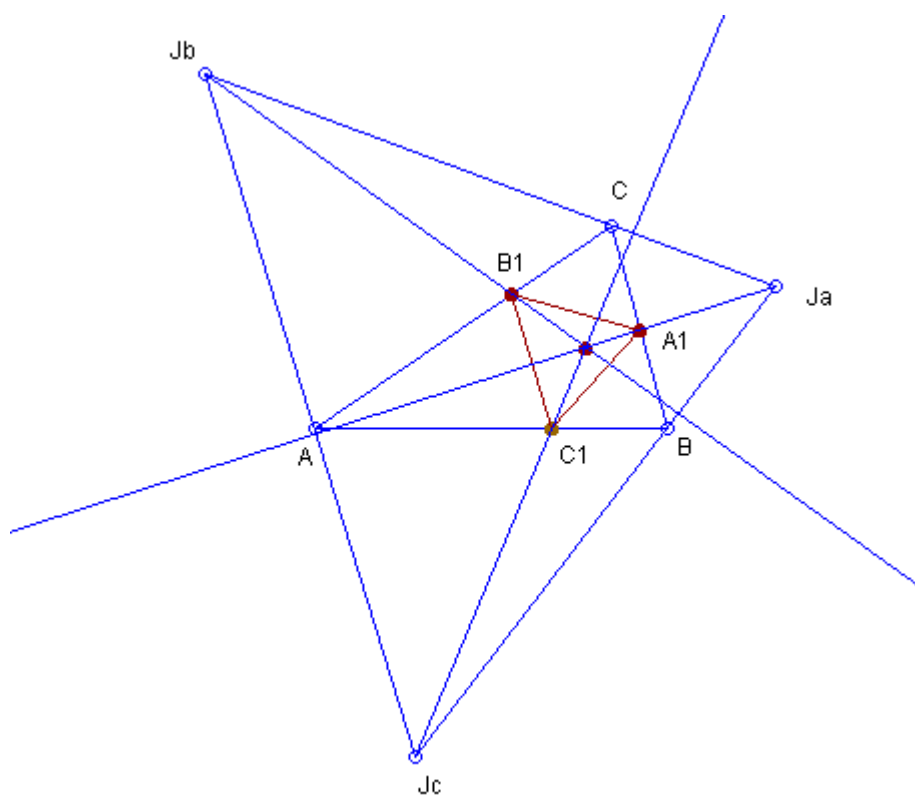
Milorad Stevanovic [5] gave a nice way how to construct the Yff Center of Congruence (the reader is invited to submit a note/paper with additional references):

Triangle ABC and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Incenter are perspective with perspector the Yff Center of Congruence.

In the list of examples given below we find a nice description of the second famous Yff point:

The Excentral Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Incenter are perspective with perspector the Congruent Isoscelizers Point.

See the Figure:



$JaJbJc$ - Excentral Triangle;

$A_1B_1C_1$ - Stevanovic Triangle of the Incenters of the Triangulation triangles of the Incenter;

The perspector of triangles $JaJbJc$ and $A_1B_1C_1$ is the Congruent Isoscelizers Point.

Examples

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

Triangle ABC and the Stevanovic Triangle of the Incenters of the Triangulation triangles of

the Incenter are perspective with perspector the Yff Center of Conguence.

Triangle ABC and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

Triangle ABC and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are perspective with perspector the Gergonne Point.

Triangle ABC and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Incenter are perspective with perspector the Isogonal Conjugate of the Mittenpunkt.

Triangle ABC and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Incenter are perspective with perspector the Second Malfatti-Rabinowitz Point.

Triangle ABC and the Stevanovic Triangle of the Centers of the Sine-Triple-Angle Circles of the Triangulation triangles of the Incenter are perspective with perspector the Inverse of the Incenter in the Circumcircle.

Triangle ABC and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are perspective with perspector the Orthocenter.

Triangle ABC and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Isotomic Conjugate of the Circumcenter.

Triangle ABC and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Orthocenter.

Triangle ABC and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Orthocenter are perspective with perspector the Perspector of Triangle ABC and the Symmedial Triangle of the Orthic Triangle.

Triangle ABC and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Outer Fermat Point are perspective with perspector the Outer Fermat Point.

Triangle ABC and the Stevanovic Triangle of the Outer Fermat Points of the Triangulation triangles of the Outer Fermat Point are perspective with perspector the Outer Fermat Point.

Triangle ABC and the Stevanovic Triangle of the First Isodynamic Points of the Triangulation triangles of the Outer Fermat Point are perspective with perspector the Outer Fermat Point.

Triangle ABC and the Stevanovic Triangle of the Second Isodynamic Points of the Triangulation triangles of the Outer Fermat Point are homothetic with homothetic center the Centroid.

Triangle ABC and the Stevanovic Triangle of the Incenters of the Triangulation triangles of

the First Isodynamic Point are perspective with perspector the Incenter.

Triangle ABC and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Symmedian Point.

Triangle ABC and the Stevanovic Triangle of the Inner Fermat Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Outer Fermat Point.

Triangle ABC and the Stevanovic Triangle of the Second Isodynamic Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the First Isodynamic Point.

Triangle ABC and the Stevanovic Triangle of the Second Power Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Second Power Point.

Triangle ABC and the Stevanovic Triangle of the Third Power Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Third Power Point.

Triangle ABC and the Stevanovic Triangle of the Fourth Power Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Fourth Power Point.

Triangle ABC and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Incenter.

Triangle ABC and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Symmedian Point.

Triangle ABC and the Stevanovic Triangle of the Second Power Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Second Power Point.

Triangle ABC and the Stevanovic Triangle of the Third Power Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Third Power Point.

Triangle ABC and the Stevanovic Triangle of the Fourth Power Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Fourth Power Point.

Triangle ABC and the Stevanovic Triangle of the Outer Napoleon Points of the Triangulation triangles of the Outer Napoleon Point are perspective with perspector the Outer Napoleon Point.

Triangle ABC and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles

of the de Longchamps Point are perspective with perspector the Symmedian Point of the Anticomplementary Triangle.

Triangle ABC and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Bevan Point are perspective with perspector the Nagel Point.

Triangle ABC and the Stevanovic Triangle of the Clawson Points of the Triangulation triangles of the Bevan Point are perspective with perspector the Perspector of Triangle ABC and the Incentral Triangle of the Extouch Triangle.

Triangle ABC and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Gergonne Point.

Triangle ABC and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Nagel Point.

Triangle ABC and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Gergonne Point.

Triangle ABC and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Nagel Point.

Triangle ABC and the Stevanovic Triangle of the Centers of the Outer Soddy Circles of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Center of the Inner Soddy Circle.

Triangle ABC and the Stevanovic Triangle of the Outer Vecten Points of the Triangulation triangles of the Inner Kenmotu Point are perspective with perspector the Malfatti-Moses Point.

Triangle ABC and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Inner Kenmotu Point are perspective with perspector the Orthocenter.

Triangle ABC and the Stevanovic Triangle of the Outer Vecten Points of the Triangulation triangles of the Outer Vecten Point are perspective with perspector the Outer Vecten Point.

The Excentral Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Incenter are perspective with perspector the Congruent Isoscelizers Point.

The Excentral Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

The Excentral Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are homothetic with homothetic center the Isogonal Conjugate of the Mittenpunkt.

The Excentral Triangle and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are perspective with perspector the Perspector of the

Orthic Triangle and the Excentral Triangle.

The Excentral Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Inner Kenmottu Point are perspective with perspector the Perspector of the Orthic Triangle and the Excentral Triangle.

The Excentral Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Perspector of the Orthic Triangle and the Excentral Triangle.

The Excentral Triangle and the Stevanovic Triangle of the Second Isodynamic Points of the Triangulation triangles of the Outer Fermat Point are perspective with perspector the Mittenpunkt.

The Excentral Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Incenter.

The Excentral Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Excentral Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Excentral Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Incenter.

The Excentral Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Bevan Point are perspective with perspector the Bevan Point.

The Excentral Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are homothetic with homothetic center the Isogonal Conjugate of the Mittenpunkt.

The Excentral Triangle and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Bevan Point.

The Excentral Triangle and the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Mittenpunkt.

The Excentral Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are homothetic with homothetic center the Isogonal Conjugate of the Mittenpunkt.

The Excentral Triangle and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Bevan

Point.

The Anticomplementary Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Equal Parallelians Point.

The Anticomplementary Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are perspective with perspector the Nagel Point of the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are perspective with perspector the Perspector of the Orthic Triangle and the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Perspector of the Orthic Triangle and the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Equal Parallelians Point.

The Anticomplementary Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Inner Kenmotu Point are perspective with perspector the Perspector of the Orthic Triangle and the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Perspector of the Symmedial Triangle and the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Equal Parallelians Point.

The Anticomplementary Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Perspector of the Symmedial Triangle and the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the de Longchamps Point are perspective with perspector the de Longchamps Point.

The Anticomplementary Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Bevan Point are perspective with perspector the Gergonne Point of the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Nagel Point of the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Gergonne Point of the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Nagel Point of the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Gergonne Point of the Anticomplementary Triangle.

The Anticomplementary Triangle and the Stevanovic Triangle of the Second Isodynamic Points of the Triangulation triangles of the Outer Fermat Point are homothetic with homothetic center the Centroid.

The Anticomplementary Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Orthocenter.

The Tangential Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Internal Center of Similitude of the Incircle and the Circumcircle.

The Tangential Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are perspective with perspector the Perspector of the Intouch Triangle and the Tangential Triangle.

The Tangential Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Incenter are perspective with perspector the External Center of Similitude of the Incircle and the Circumcircle.

The Tangential Triangle and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are homothetic with homothetic center the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Tangential Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Symmedian Point of the Tangential Triangle.

The Tangential Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Orthocenter are homothetic with homothetic center the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Tangential Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Orthocenter are perspective with perspector the Gibert Point.

The Tangential Triangle and the Stevanovic Triangle of the Second Isodynamic Points of the Triangulation triangles of the Outer Fermat Point are perspective with perspector the Circumcenter.

The Tangential Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Symmedian Point.

The Tangential Triangle and the Stevanovic Triangle of the First Isodynamic Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the First Isodynamic Point.

The Tangential Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Internal Center of Similitude of the Incircle and the Circumcircle.

The Tangential Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Symmedian Point.

The Tangential Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Internal Center of Similitude of the Incircle and the Circumcircle.

The Tangential Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Bevan Point are perspective with perspector the Perspector of the Extouch Triangle and the Tangential Triangle.

The Tangential Triangle and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Perspector of the Extouch Triangle and the Tangential Triangle.

The Tangential Triangle and the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Circumcenter.

The Tangential Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Perspector of the Intouch Triangle and the Tangential Triangle.

The Tangential Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Perspector of the Intouch Triangle and the Tangential Triangle.

The Tangential Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Inner Kenmotu Point are homothetic with homothetic center the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Circum-Medial Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Circum-Incentral Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are homothetic with

homothetic center the External Center of Similitude of the Incircle and the Circumcircle.

The Circum-Incentral Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are homothetic with homothetic center the External Center of Similitude of the Incircle and the Circumcircle.

The Circum-Incentral Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

The Circum-Incentral Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are homothetic with homothetic center the External Center of Similitude of the Incircle and the Circumcircle.

The Circum-Incentral Triangle and the Stevanovic Triangle of the Nine-Point Centers of the Triangulation triangles of the Incenter are perspective with perspector the Inverse of the Incenter in the Circumcircle.

The Circum-Orthic Triangle and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are homothetic with homothetic center the Orthocenter.

The Circum-Orthic Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Circumcenter.

The Circum-Orthic Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Orthocenter are homothetic with homothetic center the Orthocenter.

The Circum-Orthic Triangle and the Stevanovic Triangle of the Nine-Point Centers of the Triangulation triangles of the Orthocenter are perspective with perspector the Kiepert-Parry Point.

The Circum-Orthic Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Orthocenter are perspective with perspector the Gibert Point.

The Circum-Orthic Triangle and the Stevanovic Triangle of the Kosnita Points of the Triangulation triangles of the Orthocenter are perspective with perspector the Inverse of the Orthocenter in the Circumcircle.

The Circum-Orthic Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Inner Kenmotu Point are homothetic with homothetic center the Orthocenter.

The Half-Altitude Triangle and the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Incenter are perspective with perspector the Symmedian Point.

The Half-Altitude Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are perspective with perspector the Isogonal Conjugate of the Mittenpunkt.

The Half-Altitude Triangle and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are perspective with perspector the Orthocenter.

The Half-Altitude Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Inner Kenmotu Point are perspective with perspector the Orthocenter.

The Half-Altitude Triangle and the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Symmedian Point.

The Half-Altitude Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Isogonal Conjugate of the Mittenpunkt.

The Half-Altitude Triangle and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Incenter.

The Half-Altitude Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Isogonal Conjugate of the Mittenpunkt.

The Half-Altitude Triangle and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Incenter.

The Euler Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Orthocenter.

The Euler Triangle and the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Incenter are homothetic with homothetic center the Nine-Point Center.

The Euler Triangle and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are perspective with perspector the Orthocenter.

The Feuerbach Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the First Feuerbach Point.

The Feuerbach Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the First Feuerbach Point.

The Feuerbach Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the First Feuerbach Point.

The Intangents Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Internal Center of

Similitude of the Incircle and the Circumcircle.

The Intangents Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

The Intangents Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Internal Center of Similitude of the Incircle and the Circumcircle.

The Intangents Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Internal Center of Similitude of the Incircle and the Circumcircle.

The Intangents Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Incenter.

The Intangents Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Incenter.

The Extangents Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Internal Center of Similitude of the Incircle and the Circumcircle.

The Extangents Triangle and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are homothetic with homothetic center the Clawson Point.

The Extangents Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Orthocenter are homothetic with homothetic center the Clawson Point.

The Extangents Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Internal Center of Similitude of the Incircle and the Circumcircle.

The Extangents Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Internal Center of Similitude of the Incircle and the Circumcircle.

The Extangents Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Bevan Point are perspective with perspector the Bevan Point.

The Extangents Triangle and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Bevan Point.

The Extangents Triangle and the Stevanovic Triangle of the Nagel Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with

perspector the Bevan Point.

The Extangents Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Inner Kenmotu Point are homothetic with homothetic center the Clawson Point.

The Mixtilinear Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

The Mixtilinear Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Incenter are perspective with perspector the Bevan Point.

The Mixtilinear Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Incenter.

The Mixtilinear Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Incenter.

The Mid-Arc Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

The Mid-Arc Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter of the Intouch Triangle.

The Mid-Arc Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Incenter.

The Mid-Arc Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Incenter.

The Mid-Arc Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are perspective with perspector the Incenter of the Intouch Triangle.

The Mid-Arc Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are perspective with perspector the Incenter of the Intouch Triangle.

The Reflection Triangle and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are perspective with perspector the Orthocenter.

The Reflection Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Orthocenter.

The Reflection Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Nine-Point Center are homothetic with homothetic center the Centroid.

The Reflection Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Outer Fermat Point are perspective with perspector the First Isodynamic

Point.

The Reflection Triangle and the Stevanovic Triangle of the Outer Fermat Points of the Triangulation triangles of the Outer Fermat Point are perspective with perspector the First Isodynamic Point.

The Reflection Triangle and the Stevanovic Triangle of the First Isodynamic Points of the Triangulation triangles of the Outer Fermat Point are perspective with perspector the First Isodynamic Point.

The Reflection Triangle and the Stevanovic Triangle of the Inner Fermat Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the First Isodynamic Point.

The Reflection Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Inner Kenmotu Point are perspective with perspector the Orthocenter.

The First Brocard Triangle and the Stevanovic Triangle of the First Beltrami Points of the Triangulation triangles of the Circumcenter are perspective with perspector the Second Brocard Point.

The First Brocard Triangle and the Stevanovic Triangle of the Second Beltrami Points of the Triangulation triangles of the Circumcenter are perspective with perspector the First Brocard Point.

The Second Brocard Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Symmedian Point.

The Second Brocard Triangle and the Stevanovic Triangle of the Inner Napoleon Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Centroid.

The Second Brocard Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Symmedian Point.

The Third Brocard Triangle and the Stevanovic Triangle of the First Beltrami Points of the Triangulation triangles of the Circumcenter are perspective with perspector the First Brocard Point.

The Third Brocard Triangle and the Stevanovic Triangle of the Second Beltrami Points of the Triangulation triangles of the Circumcenter are perspective with perspector the Second Brocard Point.

The Third Brocard Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Perspector of the Symmedial Triangle and the Anticomplementary Triangle.

The Third Brocard Triangle and the Stevanovic Triangle of the Third Power Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Third Power Point.

The Third Brocard Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Perspector of the Symmedian Triangle and the Anticomplementary Triangle.

The Third Brocard Triangle and the Stevanovic Triangle of the Third Power Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Third Power Point.

The Fourth Brocard Triangle and the Stevanovic Triangle of the Outer Napoleon Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the First Isodynamic Point.

The Fourth Brocard Triangle and the Stevanovic Triangle of the Inner Napoleon Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Symmedian Point.

The Yff Central Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Incenter are perspective with perspector the Congruent Isoscelizers Point.

The Yff Central Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are homothetic with homothetic center the Yff Center of Conguence.

The Yff Central Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are homothetic with homothetic center the Yff Center of Conguence.

The Yff Central Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are homothetic with homothetic center the Yff Center of Conguence.

The de Villiers Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

The Malfatti Central Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

The Malfatti Central Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Incenter.

The Malfatti Central Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Incenter.

The Malfatti Squares Triangle and the Stevanovic Triangle of the Orthocenters of the

Triangulation triangles of the Symmedian Point are homothetic with homothetic center the Centroid.

The Malfatti Squares Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Malfatti-Moses Point are perspective with perspector the Malfatti-Moses Point.

The Neuberg Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Third Power Point are homothetic with homothetic center the Symmedian Point.

The Neuberg Triangle and the Stevanovic Triangle of the Outer Napoleon Points of the Triangulation triangles of the Third Power Point are perspective with perspector the First Isodynamic Point.

The Neuberg Triangle and the Stevanovic Triangle of the Inner Napoleon Points of the Triangulation triangles of the Third Power Point are perspective with perspector the Second Isodynamic Point.

The Neuberg Triangle and the Stevanovic Triangle of the Outer Vecten Points of the Triangulation triangles of the Third Power Point are perspective with perspector the Inner Kenmotu Point.

The Neuberg Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Third Power Point are perspective with perspector the Outer Kenmotu Point.

The Reflected Neuberg Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Brocard Midpoint are homothetic with homothetic center the Symmedian Point.

The Reflected Neuberg Triangle and the Stevanovic Triangle of the Outer Napoleon Points of the Triangulation triangles of the Brocard Midpoint are perspective with perspector the First Isodynamic Point.

The Reflected Neuberg Triangle and the Stevanovic Triangle of the Inner Napoleon Points of the Triangulation triangles of the Brocard Midpoint are perspective with perspector the Second Isodynamic Point.

The Reflected Neuberg Triangle and the Stevanovic Triangle of the Outer Vecten Points of the Triangulation triangles of the Brocard Midpoint are perspective with perspector the Inner Kenmotu Point.

The Reflected Neuberg Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Brocard Midpoint are perspective with perspector the Outer Kenmotu Point.

The Hexyl Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Incenter are homothetic with homothetic center the Incenter.

The Hexyl Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Outer Soddy Circle are homothetic with homothetic center the Incenter.

The Hexyl Triangle and the Stevanovic Triangle of the Gergonne Points of the Triangulation triangles of the Center of the Inner Soddy Circle are homothetic with homothetic center the Incenter.

The Johnson Triangle and the Stevanovic Triangle of the Prasolov Points of the Triangulation triangles of the Incenter are perspective with perspector the Orthocenter of the Tangential Triangle.

The Johnson Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Orthocenter.

The Johnson Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Orthocenter are perspective with perspector the Orthocenter of the Tangential Triangle.

The Johnson Triangle and the Stevanovic Triangle of the Nine-Point Centers of the Triangulation triangles of the Orthocenter are perspective with perspector the Kiepert-Parry Point.

The Johnson Triangle and the Stevanovic Triangle of the Gibert Points of the Triangulation triangles of the Orthocenter are perspective with perspector the Prasolov Point.

The Johnson Triangle and the Stevanovic Triangle of the Inner Vecten Points of the Triangulation triangles of the Inner Kenmotu Point are perspective with perspector the Orthocenter of the Tangential Triangle.

The Inner Johnson-Yff Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

The Inner Johnson-Yff Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Incenter.

The Inner Johnson-Yff Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Incenter.

The Inner Johnson-Yff Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Center of the Inner Johnson-Yff Circle are perspective with perspector the Center of the Inner Johnson-Yff Circle.

The Outer Johnson-Yff Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

The Outer Johnson-Yff Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the

Incenter.

The Outer Johnson-Yff Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Incenter.

The Outer Johnson-Yff Triangle and the Stevanovic Triangle of the Orthocenters of the Triangulation triangles of the Center of the Outer Johnson-Yff Circle are perspective with perspector the Center of the Outer Johnson-Yff Circle.

The Apollonius Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter are perspective with perspector the Internal Center of Similitude of the Apollonius Circle and the Incircle.

The Apollonius Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Internal Center of Similitude of the Apollonius Circle and the Incircle.

The Apollonius Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the First Isodynamic Point are perspective with perspector the Danneels-Apollonius Prespector.

The Apollonius Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Internal Center of Similitude of the Apollonius Circle and the Incircle.

The Apollonius Triangle and the Stevanovic Triangle of the Symmedian Points of the Triangulation triangles of the Second Isodynamic Point are perspective with perspector the Danneels-Apollonius Prespector.

The de Villiers Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Incenter are perspective with perspector the Incenter.

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. Milorad R. Stevanovic, Two Triangle Centers Associated with the Excircles, Forum Geometricorum, volume 3, 2003, pp.197-203, <http://forumgeom.fau.edu/>
6. Eric W. Weisstein, MathWorld - A Wolfram Web Resource.
<http://mathworld.wolfram.com/>

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