

## First Isodynamic Point

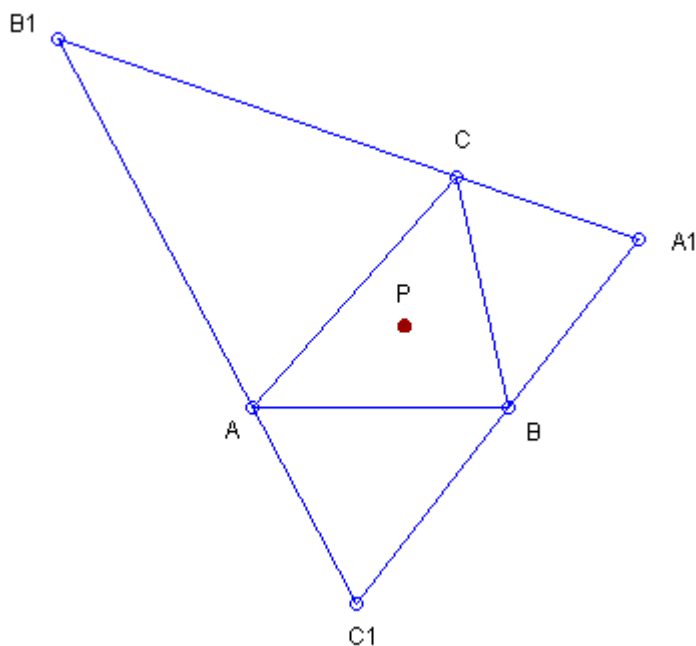
Deko Dekov

**Abstract.** By using the computer program "Machine for Questions and Answers", we find properties of the First Isodynamic Point.

Given a point, the Machine for Questions and Answers produces theorems related to properties of the point. The Machine for Questions and Answers produces theorems related to properties of the First Isodynamic Point:

First Isodynamic Point = Outer Fermat Point of the Antipedal Triangle of the First Isodynamic Point.

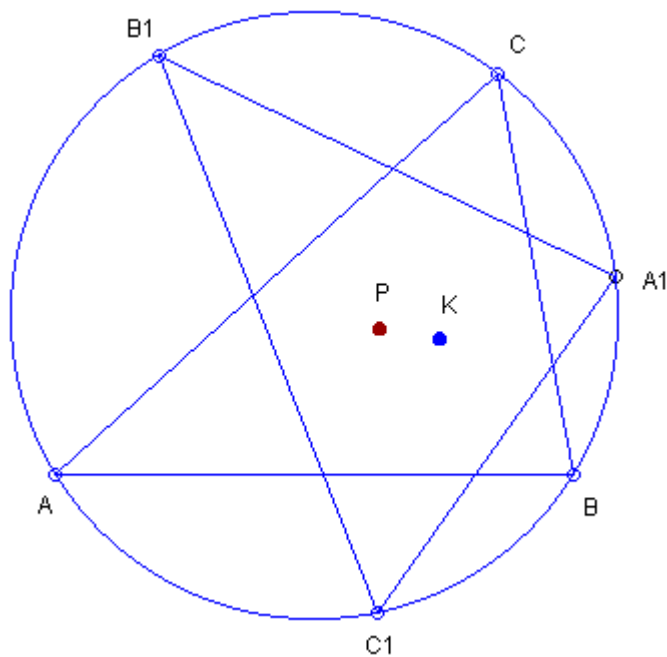
See the Figure:



$A_1B_1C_1$  - Antipedal Triangle of the First Isodynamic Point;  
 $P$  - First Isodynamic Point = Outer Fermat Point of triangle  $A_1B_1C_1$ .

First Isodynamic Point = First Isodynamic Point of the Circumcevian Triangle of the Symmedian Point.

See the Figure:



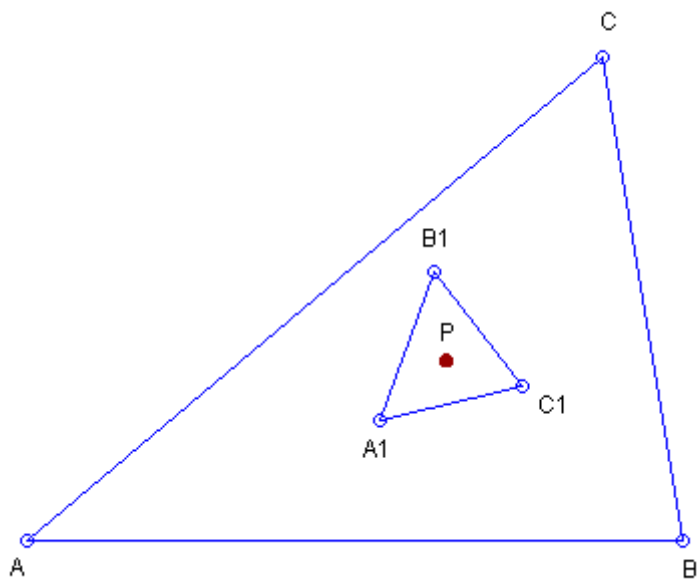
K - Symmedian Point;

$A_1B_1C_1$  - Circumcevian Triangle of the Symmedian Point;

P - First Isodynamic Point = First Isodynamic Point of triangle  $A_1B_1C_1$ .

First Isodynamic Point = First Isodynamic Point of the Second Brocard Triangle.

See the Figure:

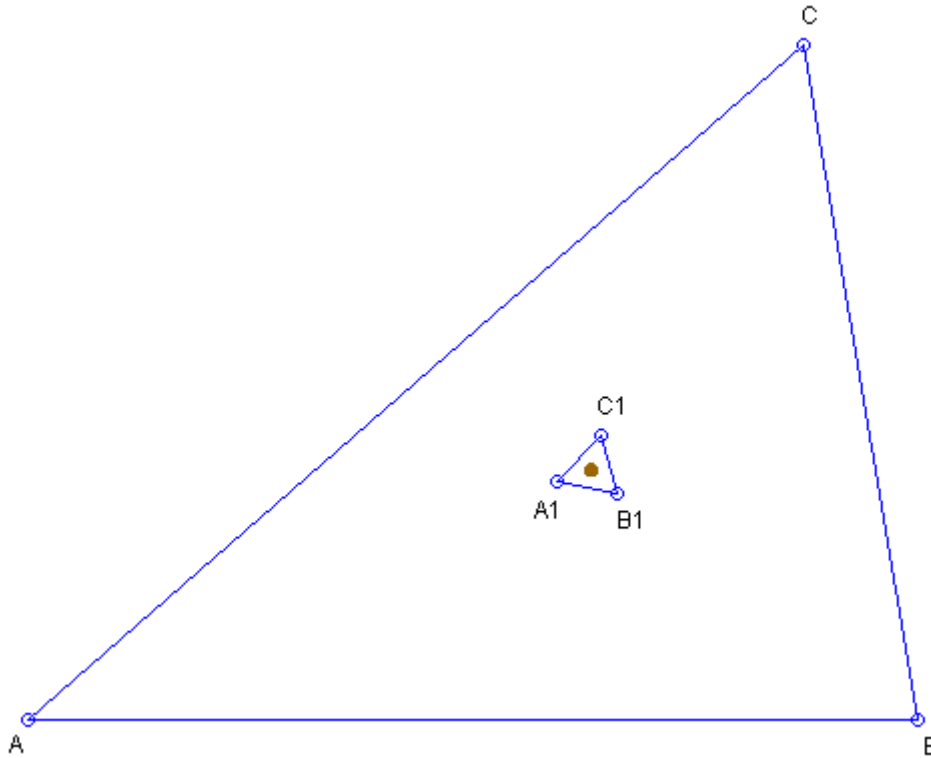


$A_1B_1C_1$  - Second Brocard Triangle;

P - First Isodynamic Point = First Isodynamic Point of triangle  $A_1B_1C_1$ .

First Isodynamic Point = First Isodynamic Point of the Inner Lucas Triangle.

See the Figure:



$A_1B_1C_1$  - Inner Lucas Triangle;

P - First Isodynamic Point = First Isodynamic Point of triangle  $A_1B_1C_1$ .

First Isodynamic Point = Center of the Napoleon-Tucker Circle.

First Isodynamic Point = Center of the Napoleon-Tucker Circle of the Circumcevian Triangle of the Symmedian Point.

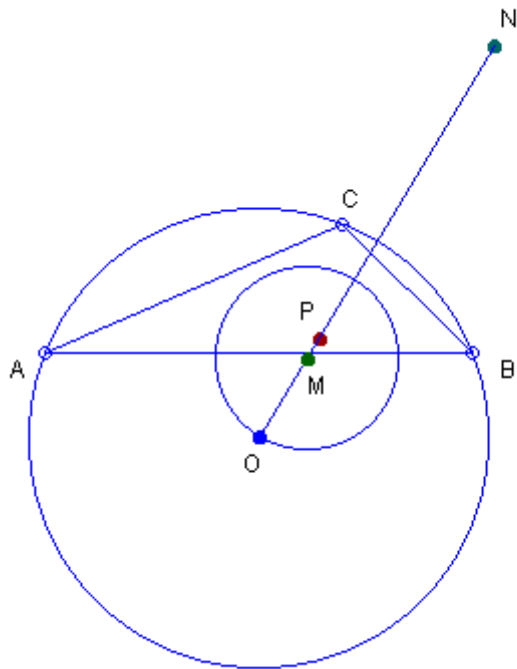
First Isodynamic Point = Center of the Napoleon-Tucker Circle of the Inner Lucas Triangle.

First Isodynamic Point = Reflection of the Second Isodynamic Point in the Schoute Center.

First Isodynamic Point = Inverse of the Second Isodynamic Point in the Circumcircle.

First Isodynamic Point = Inverse of the Second Isodynamic Point in the Brocard Circle.

See the Figure:



(M) - Brocard Circle;

(O) - Circumcircle;

N - Second Isodynamic Point;

P - First Isodynamic Point = Inverse of the Second Isodynamic Point in the Circumcircle = Inverse of the Second Isodynamic Point in the Brocard Circle.

First Isodynamic Point = Inverse of the Second Isodynamic Point in the Inner Lucas Circle.

First Isodynamic Point = Inverse of the Second Isodynamic Point in the Radical Circle of the Lucas Circles.

First Isodynamic Point = Inverse of the Inner Fermat Point of the Antipedal Triangle of the Second Isodynamic Point in the Circumcircle.

First Isodynamic Point = Inverse of the Second Isodynamic Point of the Circumcevian Triangle of the Symmedian Point in the Circumcircle.

First Isodynamic Point = Inverse of the Second Isodynamic Point of the Second Brocard Triangle in the Circumcircle.

First Isodynamic Point = Inverse of the Second Isodynamic Point of the Inner Lucas Triangle in the Circumcircle.

First Isodynamic Point = Internal Center of Similitude of the Circumcircle and the Fermat-Tucker Circle.

First Isodynamic Point = Perspector of the Cevian Triangle of the Outer Fermat Point and

the Reflection Triangle.

First Isodynamic Point = Perspector of the Cevian Triangle of the Outer Fermat Point and the Inner Fermat Triangle.

First Isodynamic Point = Perspector of Triangle ABC and the Stevanovic Triangle of the Second Isodynamic Points of the Triangulation triangles of the First Isodynamic Point.

First Isodynamic Point = Homothetic Center of Triangle ABC and the Triangle of the First Isodynamic Points of the Corner Triangles of the Centroid.

First Isodynamic Point = Perspector of Triangle ABC and the Triangle of the Outer Fermat Points of the Corner Triangles of the Orthocenter.

First Isodynamic Point = Perspector of Triangle ABC and the Triangle of the Second Isodynamic Points of the Corner Triangles of the Outer Fermat Point.

First Isodynamic Point = Perspector of Triangle ABC and the Triangle of the reflections of the Outer Fermat Point in the sides of the Excentral Triangle.

First Isodynamic Point = Perspector of Triangle ABC and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Cevian Triangle of the First Isodynamic Point.

First Isodynamic Point = Perspector of Triangle ABC and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Anticevian Triangle of the First Isodynamic Point.

First Isodynamic Point = Perspector of Triangle ABC and the Triangle of the reflections of the vertices of the Cevian Triangle of the First Isodynamic Point in the First Isodynamic Point.

First Isodynamic Point = Perspector of Triangle ABC and the Triangle of the reflections of the vertices of the Anticevian Triangle of the First Isodynamic Point in the First Isodynamic Point.

First Isodynamic Point = Perspector of the Incentral Triangle and the Triangle of the Incenters of the Triangulation Triangles of the First Isodynamic Point.

First Isodynamic Point = Homothetic Center of the Incentral Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Incentral Triangle.

First Isodynamic Point = Homothetic Center of the Medial Triangle and the Triangle of the Centroids of the Triangulation Triangles of the First Isodynamic Point.

First Isodynamic Point = Homothetic Center of the Medial Triangle and the Triangle of the First Isodynamic Points of the Anticevian Corner Triangles of the Centroid.

First Isodynamic Point = Perspector of the Medial Triangle and the Triangle of the

reflections of the Outer Fermat Point in the sides of the Medial Triangle.

First Isodynamic Point = Homothetic Center of the Medial Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Medial Triangle.

First Isodynamic Point = Homothetic Center of the Orthic Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Orthic Triangle.

First Isodynamic Point = Perspector of the Symmedian Triangle and the Triangle of the Symmedian Points of the Triangulation Triangles of the First Isodynamic Point.

First Isodynamic Point = Homothetic Center of the Symmedian Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Symmedian Triangle.

First Isodynamic Point = Homothetic Center of the Intouch Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Intouch Triangle.

First Isodynamic Point = Homothetic Center of the Extouch Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Extouch Triangle.

First Isodynamic Point = Homothetic Center of the Excentral Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Excentral Triangle.

First Isodynamic Point = Homothetic Center of the Anticomplementary Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Anticomplementary Triangle.

First Isodynamic Point = Perspector of the Tangential Triangle and the Triangle of the First Isodynamic Points of the Triangulation Triangles of the First Isodynamic Point.

First Isodynamic Point = Perspector of the Tangential Triangle and the Stevanovic Triangle of the First Isodynamic Points of the Triangulation triangles of the First Isodynamic Point.

First Isodynamic Point = Homothetic Center of the Tangential Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Tangential Triangle.

First Isodynamic Point = Perspector of the Reflection Triangle and the Triangle of the First Isodynamic Points of the Triangulation Triangles of the Outer Fermat Point.

First Isodynamic Point = Perspector of the Reflection Triangle and the Triangle of the Internal Centers of Similitude of the Incircles and the Circumcircles of the Triangulation Triangles of the Outer Fermat Point.

First Isodynamic Point = Perspector of the Reflection Triangle and the Triangle of the Miquel Points of the Incenters of the Triangulation Triangles of the Outer Fermat Point.

First Isodynamic Point = Perspector of the Reflection Triangle and the Triangle of the Inner Fermat Points of the Triangulation Triangles of the First Isodynamic Point.

First Isodynamic Point = Perspector of the Reflection Triangle and the Stevanovic Triangle

of the Incenters of the Triangulation triangles of the Outer Fermat Point.

First Isodynamic Point = Perspector of the Reflection Triangle and the Stevanovic Triangle of the Outer Fermat Points of the Triangulation triangles of the Outer Fermat Point.

First Isodynamic Point = Perspector of the Reflection Triangle and the Stevanovic Triangle of the First Isodynamic Points of the Triangulation triangles of the Outer Fermat Point.

First Isodynamic Point = Perspector of the Reflection Triangle and the Stevanovic Triangle of the Inner Fermat Points of the Triangulation triangles of the First Isodynamic Point.

First Isodynamic Point = Perspector of the Reflection Triangle and the Triangle of the reflections of the First Isodynamic Point in the vertices of the Cevian Triangle of the Outer Fermat Point.

First Isodynamic Point = Perspector of the Fourth Brocard Triangle and the Triangle of the Circumcenters of the Triangulation Triangles of the Outer Fermat Point.

First Isodynamic Point = Perspector of the Fourth Brocard Triangle and the Triangle of the Outer Napoleon Points of the Triangulation Triangles of the First Isodynamic Point.

First Isodynamic Point = Perspector of the Fourth Brocard Triangle and the Stevanovic Triangle of the Outer Napoleon Points of the Triangulation triangles of the First Isodynamic Point.

First Isodynamic Point = Perspector of the Neuberg Triangle and the Stevanovic Triangle of the Outer Napoleon Points of the Triangulation triangles of the Third Power Point.

First Isodynamic Point = Perspector of the Reflected Neuberg Triangle and the Stevanovic Triangle of the Outer Napoleon Points of the Triangulation triangles of the Brocard Midpoint.

First Isodynamic Point = Inner Johnson Perspector of the Triad of the Circumcircles of the Triangulation Triangles of the First Isodynamic Point.

First Isodynamic Point = Isogonal Conjugate of the Outer Fermat Point.

First Isodynamic Point = Anticomplement of the First Isodynamic Point of the Medial Triangle.

First Isodynamic Point = Isogonal Conjugate of the Anticomplement of the Outer Fermat Point of the Medial Triangle.

First Isodynamic Point = Isogonal Conjugate of the Outer Fermat Point of the Cevian Triangle of the Outer Fermat Point.

First Isodynamic Point = Complement of the First Isodynamic Point of the Anticomplementary Triangle.

First Isodynamic Point = Isogonal Conjugate of the Inner Fermat Point of the Anticevian

Triangle of the Outer Fermat Point.

First Isodynamic Point = Isogonal Conjugate of the First Isodynamic Point of the Fourth Brocard Triangle.

First Isodynamic Point = Isogonal Conjugate of the Reflection of the Inner Fermat Point in the Kiepert Center.

First Isodynamic Point = Isogonal Conjugate of the Product of the Centroid and the Outer Fermat Point.

First Isodynamic Point = Isogonal Conjugate of the Inverse of the Inner Fermat Point in the Orthocentroidal Circle.

First Isodynamic Point = Isogonal Conjugate of the Perspector of the Cevian Triangle of the Outer Fermat Point and the Circumcevian Triangle of the Outer Fermat Point.

First Isodynamic Point = Isogonal Conjugate of the Perspector of the Cevian Triangle of the Outer Fermat Point and the Outer Fermat Triangle.

First Isodynamic Point = Isogonal Conjugate of the Perspector of the Anticevian Triangle of the Outer Fermat Point and the Circumcevian Triangle of the Outer Fermat Point.

First Isodynamic Point = Isogonal Conjugate of the Perspector of the Anticevian Triangle of the Outer Fermat Point and the Outer Fermat Triangle.

First Isodynamic Point = Isogonal Conjugate of the Perspector of the Circumcevian Triangle of the Outer Fermat Point and the Outer Fermat Triangle.

The First Isodynamic Point lies on the Parry Circle.

The First Isodynamic Point lies on the Parry Circle of the Circumcevian Triangle of the Symmedian Point.

The First Isodynamic Point lies on the Parry Circle of the Circumcevian Triangle of the Schoute Center.

The First Isodynamic Point lies on the Parry Circle of the Circumcevian Triangle of the First Beltrami Point.

The First Isodynamic Point lies on the Parry Circle of the Circumcevian Triangle of the Second Beltrami Point.

The First Isodynamic Point lies on the Parry Circle of the Second Brocard Triangle.

The First Isodynamic Point lies on the Parry Circle of the Inner Lucas Triangle.

The First Isodynamic Point lies on the Line through the Centroid and the Inner Fermat Point.



The First Isodynamic Point lies on the Line through the Circumcenter and the Symmedian Point.

The First Isodynamic Point lies on the Line through the Circumcenter and the Second Isodynamic Point.

The First Isodynamic Point lies on the Line through the Circumcenter and the Third Power Point.

The First Isodynamic Point lies on the Line through the Circumcenter and the Inner Kenmotsu Point.

The First Isodynamic Point lies on the Line through the Circumcenter and the Outer Kenmotsu Point.

The First Isodynamic Point lies on the Line through the Circumcenter and the Danneels-Apollonius Prespector.

The First Isodynamic Point lies on the Line through the Orthocenter and the Outer Napoleon Point.

The First Isodynamic Point lies on the Line through the Symmedian Point and the Third Power Point.

The First Isodynamic Point lies on the Line through the Second Isodynamic Point and the Symmedian Point.

The First Isodynamic Point lies on the Line through the Second Isodynamic Point and the Third Power Point.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Circumcenter.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Symmedian Point.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Second Isodynamic Point.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Third Power Point.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Inner Kenmotsu Point.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Outer Kenmotsu Point.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Danneels-

Apollonius Prespector.

The First Isodynamic Point lies on the Line through the Inner Kenmotu Point and the Symmedian Point.

The First Isodynamic Point lies on the Line through the Inner Kenmotu Point and the Second Isodynamic Point.

The First Isodynamic Point lies on the Line through the Inner Kenmotu Point and the Third Power Point.

The First Isodynamic Point lies on the Line through the Inner Kenmotu Point and the Outer Kenmotu Point.

The First Isodynamic Point lies on the Line through the Outer Kenmotu Point and the Symmedian Point.

The First Isodynamic Point lies on the Line through the Outer Kenmotu Point and the Second Isodynamic Point.

The First Isodynamic Point lies on the Line through the Outer Kenmotu Point and the Third Power Point.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Symmedian Point.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Second Isodynamic Point.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Third Power Point.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Inner Kenmotu Point.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Outer Kenmotu Point.

The First Isodynamic Point lies on the Line through the Circumcenter and the Orthocenter of the Incentral Triangle.

The First Isodynamic Point lies on the Line through the Circumcenter and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Circumcenter and the Schoute Center.

The First Isodynamic Point lies on the Line through the Circumcenter and the Isogonal Conjugate of the Spieker Center.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Orthocenter of the Incentral Triangle.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Center of the Apollonius Circle.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Center of the Brocard Circle.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Center of the Inner Lucas Circle.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Center of the Taylor Circle.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Schoute Center.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Isogonal Conjugate of the Spieker Center.

The First Isodynamic Point lies on the Line through the Inner Kenmotu Point and the Orthocenter of the Incentral Triangle.

The First Isodynamic Point lies on the Line through the Inner Kenmotu Point and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Inner Kenmotu Point and the Schoute Center.

The First Isodynamic Point lies on the Line through the Inner Kenmotu Point and the Isogonal Conjugate of the Spieker Center.

The First Isodynamic Point lies on the Line through the Outer Kenmotu Point and the Schoute Center.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Orthocenter of the Incentral Triangle.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Schoute Center.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and

the Isogonal Conjugate of the Spieker Center.

The First Isodynamic Point lies on the Line through the Circumcenter and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Circumcenter and the External Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Brocard Midpoint and the External Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Inner Kenmotsu Point and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the External Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Orthocenter of the Incentral Triangle and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Orthocenter of the Incentral Triangle and the Schoute Center.

The First Isodynamic Point lies on the Line through the Orthocenter of the Orthic Triangle and the Schoute Center.

The First Isodynamic Point lies on the Line through the Center of the Apollonius Circle and the Orthocenter of the Incentral Triangle.

The First Isodynamic Point lies on the Line through the Center of the Apollonius Circle and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Center of the Apollonius Circle and the Center of the Brocard Circle.

The First Isodynamic Point lies on the Line through the Center of the Apollonius Circle and the Center of the Inner Lucas Circle.

The First Isodynamic Point lies on the Line through the Center of the Apollonius Circle and the Center of the Taylor Circle.

The First Isodynamic Point lies on the Line through the Center of the Apollonius Circle and the Schoute Center.

The First Isodynamic Point lies on the Line through the Center of the Apollonius Circle and the Isogonal Conjugate of the Spieker Center.

The First Isodynamic Point lies on the Line through the Center of the Brocard Circle and the Orthocenter of the Incentral Triangle.

The First Isodynamic Point lies on the Line through the Center of the Brocard Circle and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Center of the Brocard Circle and the Center of the Inner Lucas Circle.

The First Isodynamic Point lies on the Line through the Center of the Brocard Circle and the Center of the Taylor Circle.

The First Isodynamic Point lies on the Line through the Center of the Brocard Circle and the Schoute Center.

The First Isodynamic Point lies on the Line through the Center of the Brocard Circle and the Isogonal Conjugate of the Spieker Center.

The First Isodynamic Point lies on the Line through the Center of the Inner Lucas Circle and the Orthocenter of the Incentral Triangle.

The First Isodynamic Point lies on the Line through the Center of the Inner Lucas Circle and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Center of the Inner Lucas Circle and the Center of the Taylor Circle.

The First Isodynamic Point lies on the Line through the Center of the Inner Lucas Circle and the Schoute Center.

The First Isodynamic Point lies on the Line through the Center of the Inner Lucas Circle and the Isogonal Conjugate of the Spieker Center.

The First Isodynamic Point lies on the Line through the Center of the Taylor Circle and the Orthocenter of the Incentral Triangle.

The First Isodynamic Point lies on the Line through the Center of the Taylor Circle and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Center of the Taylor Circle and the Schoute Center.

The First Isodynamic Point lies on the Line through the Center of the Taylor Circle and the Isogonal Conjugate of the Spieker Center.

The First Isodynamic Point lies on the Line through the Isogonal Conjugate of the Spieker

Center and the Orthocenter of the Incentral Triangle.

The First Isodynamic Point lies on the Line through the Isogonal Conjugate of the Spieker Center and the Orthocenter of the Orthic Triangle.

The First Isodynamic Point lies on the Line through the Isogonal Conjugate of the Spieker Center and the Schoute Center.

The First Isodynamic Point lies on the Line through the Center of the Apollonius Circle and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Center of the Apollonius Circle and the External Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Center of the Brocard Circle and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Center of the Brocard Circle and the External Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Center of the Inner Lucas Circle and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Center of the Inner Lucas Circle and the External Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Center of the Taylor Circle and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the Center of the Taylor Circle and the External Center of Similitude of the Apollonius Circle and the Circumcircle.

The First Isodynamic Point lies on the Line through the External Center of Similitude of the Apollonius Circle and the Circumcircle and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

### **Invitation**

The reader is invited to submit a note/paper containing

- synthetic proofs of theorems from this paper,
- or, applications of theorems from this paper,
- or, additional references related to this paper.

### **Definitions**

We use the definitions in accordance with [1 - 5] and papers published in this journal.

### **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 for us 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**

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