

Second Isodynamic Point

Deko Dekov

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

Second Isodynamic Point = Inner Fermat Point of the Antipedal Triangle of the Second Isodynamic Point.

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

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

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

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

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

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

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

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

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

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

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

Second Isodynamic Point = Inverse of the First Isodynamic Point of the Inner Lucas

Triangle in the Circumcircle.

Second Isodynamic Point = External Center of Similitude of the Cosine Circle and the Napoleon-Tucker Circle.

Second Isodynamic Point = External Center of Similitude of the Kenmotu Circle and the Regular 12-gon Tucker Circle.

Second Isodynamic Point = Perspector of the Cevian Triangle of the Inner Fermat Point and the Reflection Triangle.

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

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

Second Isodynamic Point = Perspector of Triangle ABC and the Triangle of the Inner Fermat Points of the Corner Triangles of the Orthocenter.

Second Isodynamic Point = Perspector of Triangle ABC and the Triangle of the reflections of the Inner Fermat Point in the sides of the Excentral Triangle.

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

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

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

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

Second Isodynamic Point = Perspector of the Medial Triangle and the Triangle of the reflections of the Inner Fermat Point in the sides of the Medial Triangle.

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

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

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

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

Second Isodynamic Point = Homothetic Center of the Symmedial Triangle and the Triangle of the reflections of the Second Isodynamic Point in the vertices of the Symmedial Triangle.

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

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

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

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

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

Second Isodynamic Point = Perspector of the Reflection Triangle and the Triangle of the Second Isodynamic Points of the Anticevian Corner Triangles of the Inner Fermat Point.

Second Isodynamic Point = Perspector of the Reflection Triangle and the Triangle of the reflections of the Second Isodynamic Point in the vertices of the Cevian Triangle of the Inner Fermat Point.

Second Isodynamic Point = Perspector of the Fourth Brocard Triangle and the Triangle of the Circumcenters of the Triangulation Triangles of the Inner Fermat Point.

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

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

Second Isodynamic Point = Isogonal Conjugate of the Inner Fermat Point.

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

Second Isodynamic Point = Isogonal Conjugate of the Anticomplement of the Inner Fermat Point of the Medial Triangle.

Second Isodynamic Point = Isogonal Conjugate of the Inner Fermat Point of the Cevian Triangle of the Inner Fermat Point.

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

Second Isodynamic Point = Isogonal Conjugate of the Outer Fermat Point of the Anticevian Triangle of the Inner Fermat Point.

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

Second Isodynamic Point = Isogonal Conjugate of the Reflection of the Outer Fermat Point in the Kiepert Center.

Second Isodynamic Point = Isogonal Conjugate of the External Center of Similitude of the Fermat-Tucker Circle and the Nine-Point Circle.

Second Isodynamic Point = Isogonal Conjugate of the Inverse of the Outer Fermat Point in the Orthocentroidal Circle.

Second Isodynamic Point = Isogonal Conjugate of the Perspector of the Cevian Triangle of the Inner Fermat Point and the Circumcevian Triangle of the Inner Fermat Point.

Second Isodynamic Point = Isogonal Conjugate of the Perspector of the Cevian Triangle of the Inner Fermat Point and the Inner Fermat Triangle.

Second Isodynamic Point = Isogonal Conjugate of the Perspector of the Anticevian Triangle of the Inner Fermat Point and the Circumcevian Triangle of the Inner Fermat Point.

Second Isodynamic Point = Isogonal Conjugate of the Perspector of the Anticevian Triangle of the Inner Fermat Point and the Inner Fermat Triangle.

Second Isodynamic Point = Isogonal Conjugate of the Perspector of the Circumcevian Triangle of the Inner Fermat Point and the Inner Fermat Triangle.

The Second Isodynamic Point lies on the Parry Circle.

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

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

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

The Second Isodynamic Point lies on the Line through the Centroid and the Outer Fermat Point.

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

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

The Second Isodynamic Point lies on the Line through the Circumcenter and the Third

Power Point.

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

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

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

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

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

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

The Second Isodynamic Point lies on the Line through the Inner Napoleon Point and the Orthocenter.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Orthocenter of the Orthic Triangle.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Second Isodynamic Point lies on the Line through the Danneels-Apollonius Prespector and the Isogonal Conjugate of the Spieker Center.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Second Isodynamic Point lies on the Line through the Center of the Apollonius Circle

and the Isogonal Conjugate of the Spieker Center.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Second 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 Second 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 Second 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 Second 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 Second 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 Second 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 Second 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 Second 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 Second 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 we to use bigger levels upon request, that is, for specific questions.

References

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Publication Date: 1 January 2008

Dr.Deko Dekov, ddekov@dekovsoft.com.