

Equal Parallelians Point

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Abstract. By using the computer program "Machine for Questions and Answers", we find properties of the Equal Parallelians Point.

For the definition of the Equal Parallelians Point see the encyclopedia [2].

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 Equal Parallelians Point:

Equal Parallelians Point = Product of the Isotomic Conjugate of the Incenter and the Perspector of the Symmedial Triangle and the Excentral Triangle.

Equal Parallelians Point = Perspector of the Incentral Triangle and the Anticomplementary Triangle.

Equal Parallelians Point = Homothetic Center of Triangle ABC and the Triangle of the Equal Parallelians Points of the Corner Triangles of the Centroid.

Equal Parallelians Point = Perspector of Triangle ABC and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Cevian Triangle of the Equal Parallelians Point.

Equal Parallelians Point = Perspector of Triangle ABC and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Anticevian Triangle of the Equal Parallelians Point.

Equal Parallelians Point = Homothetic Center of Triangle ABC and the Triangle of the reflections of the vertices of the Medial Triangle in the Grinberg Point.

Equal Parallelians Point = Perspector of Triangle ABC and the Triangle of the reflections of the vertices of the Cevian Triangle of the Equal Parallelians Point in the Equal Parallelians Point.

Equal Parallelians Point = Perspector of Triangle ABC and the Triangle of the reflections of the vertices of the Anticevian Triangle of the Equal Parallelians Point in the Equal Parallelians Point.

Equal Parallelians Point = Homothetic Center of the Incentral Triangle and the Triangle of

the reflections of the Equal Parallelians Point in the vertices of the Incentral Triangle.

Equal Parallelians Point = Perspector of the Incentral Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Anticomplementary Triangle.

Equal Parallelians Point = Homothetic Center of the Medial Triangle and the Triangle of the Centroids of the Triangulation Triangles of the Equal Parallelians Point.

Equal Parallelians Point = Homothetic Center of the Medial Triangle and the Triangle of the Equal Parallelians Points of the Anticevian Corner Triangles of the Centroid.

Equal Parallelians Point = Homothetic Center of the Medial Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Medial Triangle.

Equal Parallelians Point = Homothetic Center of the Orthic Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Orthic Triangle.

Equal Parallelians Point = Homothetic Center of the Symmedial Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Symmedial Triangle.

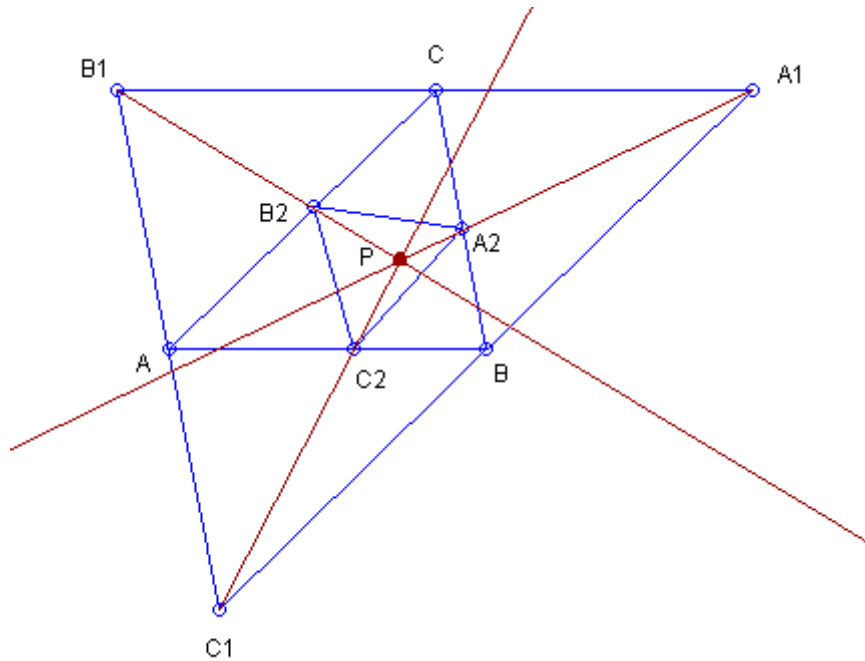
Equal Parallelians Point = Homothetic Center of the Intouch Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Intouch Triangle.

Equal Parallelians Point = Homothetic Center of the Extouch Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Extouch Triangle.

Equal Parallelians Point = Homothetic Center of the Excentral Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Excentral Triangle.

Equal Parallelians Point = Perspector of the Anticomplementary Triangle and the Stevanovic Triangle of the Circumcenters of the Triangulation triangles of the Incenter.

See the Figure:



$A_1B_1C_1$ - Anticomplementary Triangle;

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

P - Equal Parallelians Point = perspector of triangles $A_1B_1C_1$ and $A_2B_2C_2$.

Equal Parallelians Point = Perspector of the Anticomplementary Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the First Isodynamic Point.

Equal Parallelians Point = Perspector of the Anticomplementary Triangle and the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Second Isodynamic Point.

Equal Parallelians Point = Perspector of the Anticomplementary Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Incentral Triangle.

Equal Parallelians Point = Homothetic Center of the Anticomplementary Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Anticomplementary Triangle.

Equal Parallelians Point = Homothetic Center of the Tangential Triangle and the Triangle of the reflections of the Equal Parallelians Point in the vertices of the Tangential Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Incenter.

Equal Parallelians Point = Anticomplement of the Isogonal Conjugate of the Second Power Point.

Equal Parallelians Point = Anticomplement of the Equal Parallelians Point of the Medial

Triangle.

Equal Parallelians Point = Anticomplement of the Anticomplement of the Grinberg Point.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Nagel Point of the Medial Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Circumcenter of the Intouch Triangle.

Equal Parallelians Point = Anticomplement of the Grinberg Point of the Anticomplementary Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Orthocenter of the Fuhrmann Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Circumcenter of the Mid-Arc Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Bevan Point of the Yff Central Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Inner Vecten Point of the de Villiers Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Circumcenter of the Hexyl Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Center of the Fuhrmann Circle of the Johnson Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Incenter of the Inner Johnson-Yff Triangle.

Equal Parallelians Point = Anticomplement of the Isotomic Conjugate of the Incenter of the Outer Johnson-Yff Triangle.

The Equal Parallelians Point lies on the Line through the Centroid and the Grinberg Point.

The Equal Parallelians Point lies on the Line through the Centroid and the Isotomic Conjugate of the Incenter.

The Equal Parallelians Point lies on the Line through the Grinberg Point and the Isotomic Conjugate of the Incenter.

The Equal Parallelians Point lies on the Line through the Incenter and the Perspector of the Symmedial Triangle and the Anticomplementary Triangle.

The Equal Parallelians Point lies on the Line through the Gergonne Point of the

Anticomplementary Triangle and the Nagel Point of the Anticomplementary Triangle.

The Equal Parallelians Point lies on the Line through the Gergonne Point of the Anticomplementary Triangle and the Perspector of the Orthic Triangle and the Anticomplementary Triangle.

The Equal Parallelians Point lies on the Line through the Nagel Point of the Anticomplementary Triangle and the Perspector of the Orthic Triangle and the Anticomplementary Triangle.

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.

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