

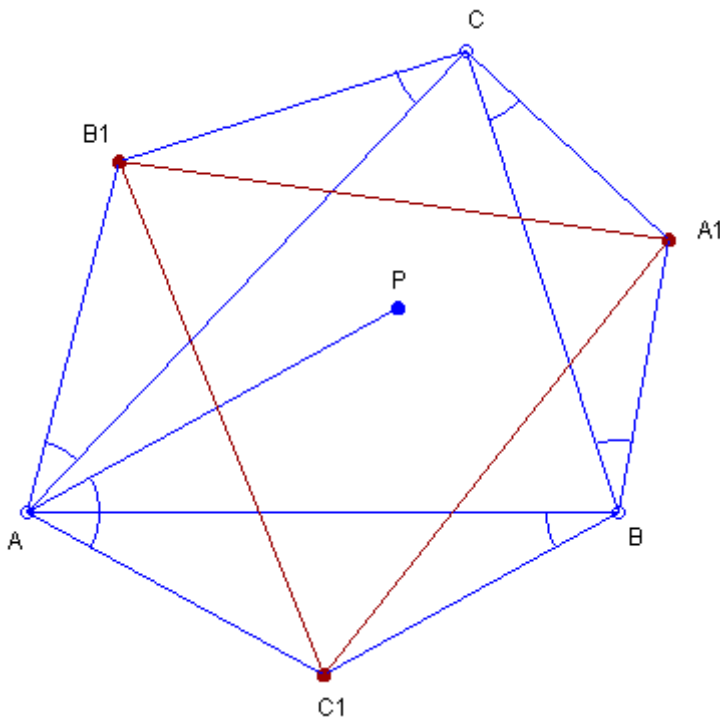
Gallatly-Kiepert Triangles

Deko Dekov

Abstract. We define the Outer and Inner Gallatly-Kiepert triangles, and by using the computer program "Machine for Questions and Answers", we find perspectives of the Gallatly-Kiepert Triangles.

Denote by ω the Brocard angle of a triangle ABC . Construct isosceles triangles with base angle ω on the outside of the given triangle ABC . The vertices of the constructed isosceles triangles form the *Outer Gallatly-Kiepert Triangle*.

See the Figure:



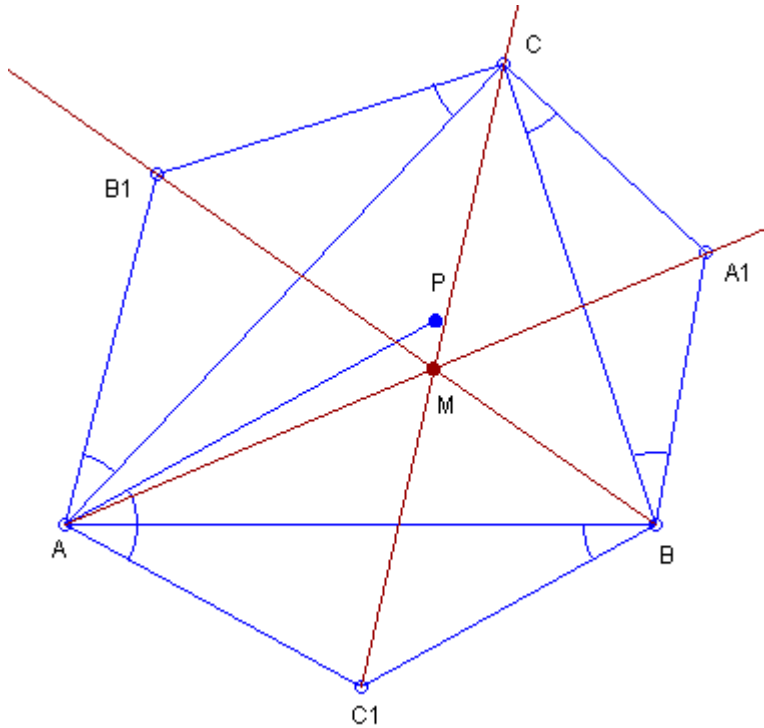
P - First Brocard Point;
 angle ω = angle BAP
 = angle BCA₁ = angle CBA₁ = angle CAB₁ = angle ACB₁ = angle ABC₁ = angle BAC₁;
 A₁B₁C₁ - Outer Gallatly-Kiepert Triangle.

The Gallatly circle is parametrized by parametric Kiepert angle equal to ω (that is, by parametric Tucker angle $\pi/2 - \omega$) which justifies the name of the Outer Gallatly-Kiepert

Triangle.

Triangle ABC and the Outer Gallatly-Kiepert Triangle are perspective at the Isogonal Conjugate of the Brocard Midpoint (we will use the term *Outer Gallatly-Kiepert Point* for this point), since the Brocard Midpoint is the center of the Gallatly circle.

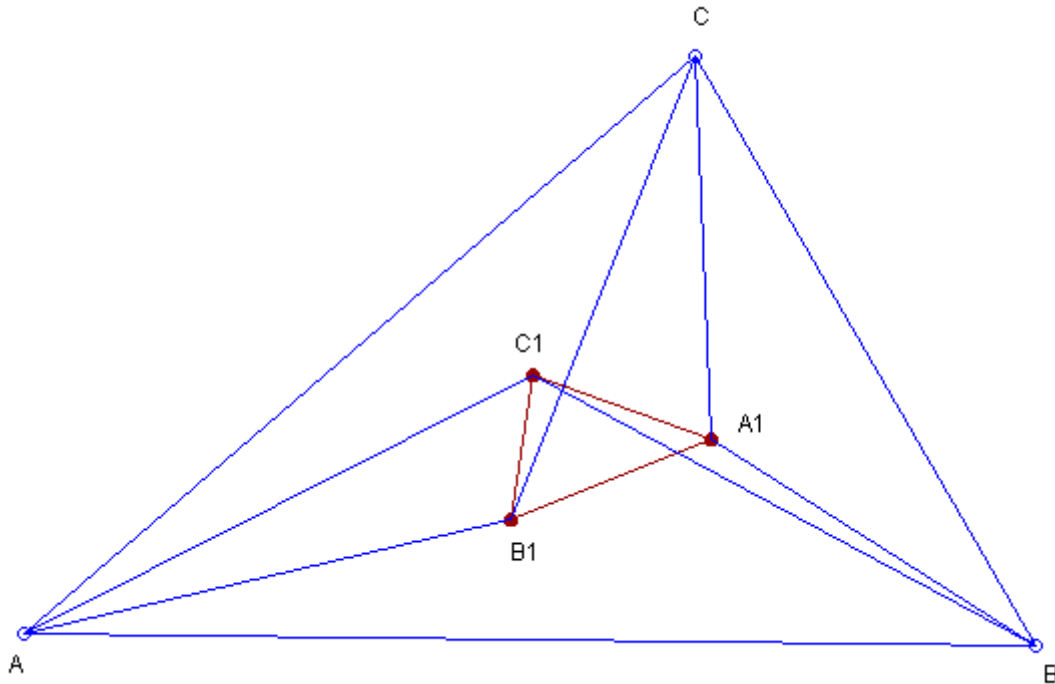
See the Figure:



P - First Brocard Point;
 angle ω = angle BAP
 = angle BCA₁ = angle CBA₁ = angle CAB₁ = angle ACB₁ = angle ABC₁ = angle BAC₁;
 A₁B₁C₁ - Outer Gallatly-Kiepert Triangle;
 M - Outer Gallatly-Kiepert Point = Isogonal Conjugate of the Brocard Midpoint =
 perspector of triangles ABC and A₁B₁C₁.

Construct isosceles triangles with base angle ω on the inside of the given triangle ABC. The vertices of the constructed isosceles triangles form the *Inner Gallatly-Kiepert Triangle*.

See the Figure:



angle *omega*

= angle BCA_1 = angle CBA_1 = angle CAB_1 = angle ACB_1 = angle ABC_1 = angle BAC_1 ;
 $A_1B_1C_1$ - Inner Gallatly-Kiepert Triangle.

Outer Gallatly-Kiepert Triangle

The Machine for Questions and Answers produces theorems related to perspectives of the Outer Gallatly-Kiepert Triangle. A few examples are given below.

The Outer Gallatly-Kiepert Triangle is perspective with Triangle ABC.

The Outer Gallatly-Kiepert Triangle is perspective with the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Symmedial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Excentral Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Tangential Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Brocard Midpoint.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Center of the Brocard Circle.

The Outer Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the

Circumcenter.

The Outer Gallatly-Kiepert Triangle is homothetic to the Pedal Triangle of the Center of the Brocard Circle.

The Outer Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Incenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Circumcenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Orthocenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Center of the Brocard Circle.

The Outer Gallatly-Kiepert Triangle is perspective with the Circum-Incentral Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Circumcevian Triangle of the Symmedian Point.

The Outer Gallatly-Kiepert Triangle is perspective with the Fuhrmann Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the First Brocard Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Third Brocard Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Johnson Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Outer Fermat Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Orthic Triangle of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Cevian Triangle of the de Longchamps Point.

The Outer Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Reflection Triangle of the

Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the First Brocard Triangle of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Orthocenter of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Circumcenter of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Orthocenter of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is homothetic to the Pedal Triangle of the Center of the Brocard Circle of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the de Longchamps Point of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Circum-Orthic Triangle of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Circumcevian Triangle of the Circumcenter of the Orthic Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Outer Fermat Triangle of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle of the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Excentral Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Tangential Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Circumcenter of the Excentral Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Nine-Point Center of the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is homothetic to the Pedal Triangle of the Center of the Brocard Circle of the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Circumcenter of the Tangential Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Orthocenter of the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the Excentral Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the First Brocard Triangle of the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle of the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle of the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Outer Fermat Triangle of the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the First Brocard Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Reflected Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Hexyl Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Orthic Triangle of the Johnson Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle of the Euler Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle of the First Brocard Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Gergonne Point of the Lucas Central Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle of

the Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle of the Reflected Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Orthocenter of the Johnson Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the First Brocard Triangle of the First Brocard Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Inner Lucas Triangle of the First Brocard Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle of the First Brocard Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle of the First Brocard Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the First Brocard Triangle of the Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle of the Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle of the Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the First Brocard Triangle of the Reflected Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle of the Reflected Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle of the Reflected Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the Hexyl Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Johnson Triangle of the Hexyl Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the Johnson Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Reflection Triangle of the Johnson Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Outer Fermat Triangle of the Reflected Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Inner Fermat Triangle of the Reflected Neuberg Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Triangulation Triangles of the Incenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Centroids of the Triangulation Triangles of the Centroid.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Triangulation Triangles of the Centroid.

The Outer Gallatly-Kiepert Triangle is perspective with the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Incenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Centroid.

The Outer Gallatly-Kiepert Triangle is perspective with the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Circumcenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Centroids of the Corner Triangles of the Centroid.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the de Longchamps Points of the Corner Triangles of the Centroid.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Brocard Midpoints of the Corner Triangles of the Orthocenter.

The Outer Gallatly-Kiepert Triangle is homothetic to the Triangle of the Centers of the Brocard Circles of the Corner Triangles of the Orthocenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Symmedian Points of the Corner Triangles of the Symmedian Point.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Centroids of the Anticevian Corner Triangles of the Centroid.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of

the Anticevian Corner Triangles of the Circumcenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Orthocenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Nine-Point Center.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the Incenters of the Anticevian Corner Triangles of the Symmedian Point.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Circumcenter in the sides of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Brocard Midpoint in the sides of the Excentral Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Circumcenter in the sides of the Anticomplementary Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Centroid in the vertices of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Circumcenter in the vertices of the Medial Triangle.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Incenter.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Incenter.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Circumcenter.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Circumcenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Triad of the Second Droz-Farny Circles of the Triangulation Triangles of the Orthocenter.

The Outer Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Triad of the Second Droz-Farny Circles of the Triangulation Triangles of the Orthocenter.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Nine-Point Circles of the Triangulation Triangles of the Inner Fermat Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Nine-Point Circles of the Triangulation Triangles of the Inner Fermat Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Yff Center of Conguence.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Yff Center of Conguence.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Weill Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Weill Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Inner Eppstein Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Inner Eppstein Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Nine-Point Circles of the Triangulation Triangles of the Inner Vecten Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Nine-Point Circles of the Triangulation Triangles of the Inner Vecten Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Second de Villiers Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Second de Villiers Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Second Malfatti-Rabinowitz Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Second Malfatti-Rabinowitz Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Outer Napoleon Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Outer Napoleon Point.

The Outer Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Tangential Triangle.

The Outer Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Tangential Triangle.

Inner Gallatly-Kiepert Triangle

The Machine for Questions and Answers produces theorems related to perspectives of the Inner Gallatly-Kiepert Triangle. A few examples are given below.

The Inner Gallatly-Kiepert Triangle is perspective with Triangle ABC.

The Inner Gallatly-Kiepert Triangle is perspective with the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Excentral Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Tangential Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Third Power Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Tarry Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Incenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Orthocenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Center of the Brocard Circle.

The Inner Gallatly-Kiepert Triangle is perspective with the Circum-Incentral Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Fuhrmann Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Second Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Third Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Johnson Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Fermat Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Orthic Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Symmedian Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Cevian Triangle of the de Longchamps Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Reflection Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the First Brocard Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Second Brocard Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Third Brocard Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Orthocenter of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Circumcenter of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Orthocenter of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Symmedian Point of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Kosnita Point of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Prasolov Point of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the de Longchamps Point of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Circum-Orthic Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Circumcevian Triangle of the Circumcenter of the Orthic Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Fermat Triangle of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Excentral Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Tangential Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Circumcenter of the Excentral Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Nine-Point Center of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Pedal Triangle of the Circumcenter of the Tangential Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Antipedal Triangle of the Orthocenter of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the Excentral Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the First Brocard Triangle of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Second Brocard Triangle of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle of

the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Fermat Triangle of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Cevian Triangle of the Circumcenter of the Circum-Incentral Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Circumcenter of the Circum-Incentral Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Circumcevian Triangle of the Circumcenter of the Circum-Incentral Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Lucas Central Triangle of the Circum-Incentral Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Incentral Triangle of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Reflected Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Medial Triangle of the Hexyl Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Orthic Triangle of the Johnson Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle of the Euler Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Tangential Triangle of the Second Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Gergonne Point of the Lucas Central Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle of the Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticomplementary Triangle of the Reflected Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Anticevian Triangle of the Orthocenter of the Johnson Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the First Brocard Triangle of the Euler Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the Euler Triangle of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the First Brocard Triangle of the Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle of the Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle of the Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the First Brocard Triangle of the Reflected Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Neuberg Triangle of the Reflected Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Reflected Neuberg Triangle of the Reflected Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the Hexyl Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Johnson Triangle of the Hexyl Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the Johnson Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Reflection Triangle of the Johnson Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the First Brocard Triangle of the Johnson Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the First Brocard Triangle of the Inner Johnson-Yff Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the First Brocard Triangle of the Outer Johnson-Yff Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the Inner Brocard Triangle of the Euler Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Fermat Triangle of the

First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Incenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Stevanovic Triangle of the Incenters of the Triangulation triangles of the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Centroids of the Corner Triangles of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the de Longchamps Points of the Corner Triangles of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Third Power Points of the Corner Triangles of the Orthocenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Incenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Centroids of the Anticevian Corner Triangles of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Symmedian Points of the Anticevian Corner Triangles of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Orthocenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Circumcenters of the Anticevian Corner Triangles of the Nine-Point Center.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the Incenters of the Anticevian Corner Triangles of the Symmedian Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Circumcenter in the sides of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Third Power Point in the sides of the Excentral Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Circumcenter in the sides of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Centroid in the vertices of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Circumcenter in the vertices of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Symmedian Point in the vertices of the Medial Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Centroid in the vertices of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Symmedian Point in the vertices of the Anticomplementary Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Circumcenter in the vertices of the Tangential Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Medial Triangle in the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Medial Triangle in the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Orthic Triangle in the Nine-Point Center.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Symmedianal Triangle in the Brocard Midpoint.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Anticomplementary Triangle in the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Anticomplementary Triangle in the Brocard Midpoint.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Anticevian Triangle of the Orthocenter in the Nine-Point Center.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Anticevian Triangle of the Orthocenter in the Symmedian Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Tangential Triangle in the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the

vertices of the Anticevian Triangle of the Center of the Brocard Circle in the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the vertices of the Anticevian Triangle of the Schoute Center in the Symmedian Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Side Triangle of the First Brocard Point and the Second Brocard Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Euler Triangle of the de Longchamps Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Half-Cevian Triangle of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Half-Cevian Triangle of the de Longchamps Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Grinberg Triangle of the Incenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Grinberg Triangle of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Grinberg Triangle of the Symmedian Point.

The Inner Gallatly-Kiepert Triangle is perspective with the Triangle of the reflections of the Circumcenter in the sides of Triangle ABC.

The Inner Gallatly-Kiepert Triangle is perspective with the Hatzipolakis Triangle of the Centroid.

The Inner Gallatly-Kiepert Triangle is perspective with the Hatzipolakis Triangle of the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Desmic Mate the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Desmic Mate the Neuberg Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Lucas Circles.

The Inner Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Excircles of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the

Excircles of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Excircles of the Inner Gallatly-Kiepert Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Excircles of the Inner Gallatly-Kiepert Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Soddy Circles of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Soddy Circles of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Soddy Circles of the Lucas Central Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Soddy Circles of the Inner Gallatly-Kiepert Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Soddy Circles of the Inner Gallatly-Kiepert Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Malfatti Circles of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Malfatti Circles of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Malfatti Circles of the Inner Gallatly-Kiepert Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Malfatti Circles of the Inner Gallatly-Kiepert Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Lucas Circles of the Circumcevian Triangle of the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Lucas Circles of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Lucas Circles of the First Brocard Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Lucas Circles of the Inner Gallatly-Kiepert Triangle.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Lucas Circles of the Inner Gallatly-Kiepert Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Circumcenter.

The Inner Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Circumcenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Inner Moses Triangle of the Triad of the Second Droz-Farny Circles of the Triangulation Triangles of the Orthocenter.

The Inner Gallatly-Kiepert Triangle is perspective with the Outer Moses Triangle of the Triad of the Second Droz-Farny Circles of the Triangulation Triangles of the Orthocenter.

The Inner Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Second de Villiers Point.

The Inner Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Triangulation Triangles of the Second de Villiers Point.

The Inner Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Moses Point.

The Inner Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Moses Point.

The Inner Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Congruent Isoscelizers Point.

The Inner Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Congruent Isoscelizers Point.

The Inner Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Tangential Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Tangential Triangle.

The Inner Gallatly-Kiepert Triangle is homothetic to the Inner Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Anticevian Triangle of the Clawson Point.

The Inner Gallatly-Kiepert Triangle is homothetic to the Outer Moses Triangle of the Triad of the Circumcircles of the Corner Triangles of the Anticevian Triangle of the Clawson Point.

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.

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.

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