

Centroid

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

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 Centroid:

Centroid = Centroid of the Medial Triangle.

Centroid = Centroid of the Anticomplementary Triangle.

Centroid = Centroid of the Pedal Triangle of the Circumcenter.

Centroid = Symmedian Point of the Antipedal Triangle of the Centroid.

Centroid = Centroid of the Antipedal Triangle of the Orthocenter.

Centroid = Centroid of the First Brocard Triangle.

Centroid = Parry Point of the Fourth Brocard Triangle.

Centroid = Centroid of the Neuberg Triangle.

Centroid = Centroid of the Reflected Neuberg Triangle.

Centroid = Center of the Orthocentroidal Circle of the Johnson Triangle.

For any Kiepert Triangle, the Centroid is the Centroid of the Kiepert Triangle.

Centroid = Center of the Orthocentroidal Circle of the Johnson Triangle.

Centroid = Center of the Cosine Circle of the Antipedal Triangle of the Centroid.

Centroid = Midpoint between the Center of the Orthocentroidal Circle and the Circumcenter.

Centroid = Midpoint between the External Center of Similitude of the Bevan Circle and the

Nine-Point Circle and the Centroid of the Excentral Triangle.

Centroid = Reflection of the Orthocenter in the Center of the Orthocentroidal Circle.

Centroid = Product of the Gergonne Point and the Nagel Point.

Centroid = Product of the Incenter and the Isotomic Conjugate of the Incenter.

Centroid = Product of the Circumcenter and the Isotomic Conjugate of the Circumcenter.

Centroid = Product of the Orthocenter and the Symmedian Point of the Anticomplementary Triangle.

Centroid = Product of the Symmedian Point and the Isotomic Conjugate of the Symmedian Point.

Centroid = Product of the Nine-Point Center and the Isotomic Conjugate of the Nine-Point Center.

Centroid = Product of the Mittenpunkt and the Isotomic Conjugate of the Mittenpunkt.

Centroid = Product of the Spieker Center and the Isotomic Conjugate of the Spieker Center.

Centroid = Inverse of the Far-Out Point in the Circumcircle.

Centroid = Inverse of the Kiepert-Parry Point in the Brocard Circle.

Centroid = Internal Center of Similitude of the Incircle and the Spieker Circle.

Centroid = Internal Center of Similitude of the Circumcircle and the Nine-Point Circle.

Centroid = Internal Center of Similitude of the Conway Circle and the Radical Circle of the Excircles.

Centroid = Internal Center of Similitude of the Incircle and the Incircle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Circumcircle and the Circumcircle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Circumcircle and the Circumcircle of the Orthic Triangle.

Centroid = Internal Center of Similitude of the Nine-Point Circle and the Nine-Point Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Spieker Circle and the Spieker Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Spieker Circle and the Circumcircle of the

Intouch Triangle.

Centroid = Internal Center of Similitude of the Bevan Circle and the Bevan Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Apollonius Circle and the Apollonius Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Radical Circle of the Excircles and the Radical Circle of the Excircles of the Medial Triangle.

Centroid = Internal Center of Similitude of the Brocard Circle and the Brocard Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Conway Circle and the Conway Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Orthocentroidal Circle and the Orthocentroidal Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Hexyl Circle and the Hexyl Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Parry Circle and the Parry Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Stevanovic Circle and the Stevanovic Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Outer Soddy Circle and the Outer Soddy Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Inner Soddy Circle and the Inner Soddy Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Inner Lucas Circle and the Inner Lucas Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Radical Circle of the Lucas Circles and the Radical Circle of the Lucas Circles of the Medial Triangle.

Centroid = Internal Center of Similitude of the Adams Circle and the Adams Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Moses Circle and the Moses Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Half-Moses Circle and the Half-Moses Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the First Droz-Farny Circle and the First Droz-Farny Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Second Droz-Farny Circle and the Second Droz-Farny Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Sine-Triple-Angle Circle and the Sine-Triple-Angle Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Inner Johnson-Yff Circle and the Inner Johnson-Yff Circle of the Medial Triangle.

Centroid = Internal Center of Similitude of the Outer Johnson-Yff Circle and the Outer Johnson-Yff Circle of the Medial Triangle.

Centroid = External Center of Similitude of the Incircle and the Spieker Circle of the Medial Triangle.

Centroid = External Center of Similitude of the Circumcircle and the Nine-Point Circle of the Medial Triangle.

Centroid = External Center of Similitude of the Conway Circle and the Radical Circle of the Excircles of the Medial Triangle.

Centroid = Radical Center of the Triad of the Circumcircles of the Triangulation Triangles of the Centroid.

Centroid = Radical Center of the Triad of the Orthocentroidal Circles of the Corner Triangles of the Centroid.

Centroid = Radical Center of the Triad of the Orthocentroidal Circles of the Corner Triangles of the Anticevian Triangle of the Centroid.

Centroid = Homothetic Center of the and the Medial Triangle of the Medial Triangle.

Centroid = Perspector of Triangle ABC and the Cevian Triangle of the Circumcenter of the Intouch Triangle.

Centroid = Perspector of the Incentral Triangle and the Anticevian Triangle of the Equal Parallelians Point.

Centroid = Homothetic Center of the Medial Triangle and the Anticomplementary Triangle.

Centroid = Homothetic Center of the Medial Triangle and the Antipedal Triangle of the Orthocenter.

Centroid = Perspector of the Medial Triangle and the Circum-Medial Triangle.

Centroid = Perspector of the Medial Triangle and the Fourth Brocard Triangle.

Centroid = Homothetic Center of the Anticomplementary Triangle and the Pedal Triangle of the Circumcenter.

Centroid = Perspector of the Anticevian Triangle of the de Longchamps Point and the Pedal Triangle of the de Longchamps Point.

Centroid = Perspector of the Anticomplementary Triangle and the Circum-Medial Triangle.

Centroid = Perspector of the Anticomplementary Triangle and the Fourth Brocard Triangle.

Centroid = Homothetic Center of the Pedal Triangle of the Circumcenter and the Antipedal Triangle of the Orthocenter.

Centroid = Perspector of the Pedal Triangle of the Circumcenter and the Circum-Medial Triangle.

Centroid = Perspector of the Pedal Triangle of the Center of the Brocard Circle and the Circumcevian Triangle of the Symmedian Point.

Centroid = Perspector of the Pedal Triangle of the Circumcenter and the Fourth Brocard Triangle.

Centroid = Homothetic Center of the Pedal Triangle of the Nine-Point Center and the Reflection Triangle.

Centroid = Homothetic Center of the Pedal Triangle of the Symmedian Point and the Malfatti Squares Triangle.

Centroid = Perspector of the Antipedal Triangle of the Orthocenter and the Circum-Medial Triangle.

Centroid = Perspector of the Antipedal Triangle of the Orthocenter and the Fourth Brocard Triangle.

Centroid = Perspector of the Circum-Medial Triangle and the Fourth Brocard Triangle.

Centroid = Homothetic Center of the Circumcevian Triangle of the Circumcenter and the Euler Triangle.

Centroid = Perspector of the First Brocard Triangle and the Second Brocard Triangle.

Centroid = Perspector of the Second Brocard Triangle and the First Brocard Triangle.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the Centroids of the Triangulation Triangles of the Centroid.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the First Feuerbach Points of the Triangulation Triangles of the Circumcenter.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the Kiepert Centers of

the Triangulation Triangles of the Circumcenter.

For any Triangle Center, the Centroid is the Homothetic Center of Triangle ABC and the Stevanovic Triangle of the Centroids of the Triangulation triangles of the Triangle Center.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the Centroids of the Corner Triangles of the Centroid.

Centroid = Perspector of Triangle ABC and the Triangle of the Symmedian Points of the Corner Triangles of the Orthocenter.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the Centroids of the Anticevian Corner Triangles of the Centroid.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the First Feuerbach Points of the Anticevian Corner Triangles of the Symmedian Point.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the Kiepert Centers of the Anticevian Corner Triangles of the Symmedian Point.

Centroid = Perspector of Triangle ABC and the Triangle of the reflections of the Symmedian Point in the sides of the Excentral Triangle.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the reflections of the Centroid in the vertices of the Medial Triangle.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the reflections of the Centroid in the vertices of the Anticomplementary Triangle.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the reflections of the vertices of the Medial Triangle in the Centroid.

Centroid = Homothetic Center of Triangle ABC and the Triangle of the reflections of the vertices of the Anticomplementary Triangle in the Centroid.

Centroid = Homothetic Center of Triangle ABC and the Outer Apollonius Triangle of the Lucas Circles of the Medial Triangle.

Centroid = Homothetic Center of Triangle ABC and the Outer Apollonius Triangle of the Lucas Circles of the Anticomplementary Triangle.

Centroid = Homothetic Center of Triangle ABC and the Outer Apollonius Triangle of the Lucas Circles of the Pedal Triangle of the Circumcenter.

Centroid = Homothetic Center of Triangle ABC and the Outer Apollonius Triangle of the Lucas Circles of the Antipedal Triangle of the Orthocenter.

Centroid = Perspector of Triangle ABC and the Outer Apollonius Triangle of the Lucas Circles of the Circum-Medial Triangle.

Centroid = Perspector of Triangle ABC and the Outer Apollonius Triangle of the Lucas Circles of the Fourth Brocard Triangle.

Centroid = Complement of the Centroid.

Centroid = Isotomic Conjugate of the Complement of the Centroid.

Centroid = Cyclocevian Conjugate of the Complement of the de Longchamps Point.

Centroid = Square of the Complement of the Centroid.

Centroid = Anticomplement of the Centroid.

Centroid = Isotomic Conjugate of the Anticomplement of the Centroid.

Centroid = Cyclocevian Conjugate of the Anticomplement of the Circumcenter.

Centroid = Square of the Anticomplement of the Centroid.

Centroid = Isogonal Conjugate of the Symmedian Point.

Centroid = Complement of the Isogonal Conjugate of the Symmedian Point.

Centroid = Anticomplement of the Isogonal Conjugate of the Symmedian Point.

Centroid = Isotomic Conjugate of the Isogonal Conjugate of the Symmedian Point.

Centroid = Cyclocevian Conjugate of the Isogonal Conjugate of the Circumcenter.

Centroid = Square of the Isogonal Conjugate of the Symmedian Point.

Centroid = Isotomic Conjugate of the Centroid.

Centroid = Complement of the Isotomic Conjugate of the Centroid.

Centroid = Anticomplement of the Isotomic Conjugate of the Centroid.

Centroid = Square of the Isotomic Conjugate of the Centroid.

Centroid = Cyclocevian Conjugate of the Orthocenter.

Centroid = Complement of the Cyclocevian Conjugate of the Orthocenter.

Centroid = Anticomplement of the Cyclocevian Conjugate of the Orthocenter.

Centroid = Isotomic Conjugate of the Cyclocevian Conjugate of the Orthocenter.

Centroid = Square of the Cyclocevian Conjugate of the Orthocenter.

Centroid = Square of the Centroid.

Centroid = Complement of the Square of the Centroid.

Centroid = Anticomplement of the Square of the Centroid.

Centroid = Isogonal Conjugate of the Square of the Incenter.

Centroid = Isotomic Conjugate of the Square of the Centroid.

Centroid = Square of the Square of the Centroid.

Centroid = Complement of the Centroid of the Medial Triangle.

Centroid = Isotomic Conjugate of the Complement of the Centroid of the Medial Triangle.

Centroid = Anticomplement of the Centroid of the Medial Triangle.

Centroid = Isogonal Conjugate of the Anticomplement of the Symmedian Point of the Medial Triangle.

Centroid = Isotomic Conjugate of the Anticomplement of the Centroid of the Medial Triangle.

Centroid = Isotomic Conjugate of the Centroid of the Medial Triangle.

Centroid = Complement of the Isotomic Conjugate of the Centroid of the Medial Triangle.

Centroid = Anticomplement of the Isotomic Conjugate of the Centroid of the Medial Triangle.

Centroid = Cyclocevian Conjugate of the de Longchamps Point of the Medial Triangle.

The Centroid lies on the Orthocentroidal Circle.

The Centroid lies on the Parry Circle.

The Centroid lies on the Orthocentroidal Circle of the Medial Triangle.

The Centroid lies on the Parry Circle of the Medial Triangle.

The Centroid lies on the Orthocentroidal Circle of the Cevian Triangle of the Steiner Point.

The Centroid lies on the Orthocentroidal Circle of the Anticomplementary Triangle.

The Centroid lies on the Parry Circle of the Anticomplementary Triangle.

The Centroid lies on the Orthocentroidal Circle of the Pedal Triangle of the Circumcenter.

The Centroid lies on the Parry Circle of the Pedal Triangle of the Circumcenter.

The Centroid lies on the Brocard Circle of the Antipedal Triangle of the Centroid.

The Centroid lies on the Orthocentroidal Circle of the Antipedal Triangle of the Orthocenter.

The Centroid lies on the Parry Circle of the Antipedal Triangle of the Orthocenter.

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

The Centroid lies on the Orthocentroidal Circle of the First Brocard Triangle.

The Centroid lies on the Parry Circle of the First Brocard Triangle.

The Centroid lies on the Circumcircle of the Fourth Brocard Triangle.

The Centroid lies on the Parry Circle of the Fourth Brocard Triangle.

The Centroid lies on the Parry Circle of the Inner Lucas Triangle.

The Centroid lies on the Orthocentroidal Circle of the Neuberg Triangle.

The Centroid lies on the Parry Circle of the Neuberg Triangle.

The Centroid lies on the Orthocentroidal Circle of the Reflected Neuberg Triangle.

The Centroid lies on the Parry Circle of the Reflected Neuberg Triangle.

The Centroid lies on the Orthocentroidal Circle of the Outer Fermat Triangle.

The Centroid lies on the Parry Circle of the Outer Fermat Triangle.

The Centroid lies on the Orthocentroidal Circle of the Inner Fermat Triangle.

The Centroid lies on the Parry Circle of the Inner Fermat Triangle.

The Centroid lies on the Outer Apollonius Circle of the Lucas Circles of the Fourth Brocard Triangle.

The Centroid lies on the Line through the Incenter and the Nagel Point.

The Centroid lies on the Line through the Incenter and the Spieker Center.

The Centroid lies on the Line through the Circumcenter and the Orthocenter.

The Centroid lies on the Line through the Circumcenter and the Nine-Point Center.

The Centroid lies on the Line through the Circumcenter and the de Longchamps Point.

The Centroid lies on the Line through the Circumcenter and the Exeter Point.

The Centroid lies on the Line through the Circumcenter and the Schiffler Point.

The Centroid lies on the Line through the Circumcenter and the Gibert Point.

The Centroid lies on the Line through the Circumcenter and the Skordev Point.

The Centroid lies on the Line through the Orthocenter and the de Longchamps Point.

The Centroid lies on the Line through the Orthocenter and the Schiffler Point.

The Centroid lies on the Line through the Orthocenter and the Skordev Point.

The Centroid lies on the Line through the Gergonne Point and the Mittenpunkt.

The Centroid lies on the Line through the Nagel Point and the Spieker Center.

The Centroid lies on the Line through the Nine-Point Center and the Orthocenter.

The Centroid lies on the Line through the Nine-Point Center and the de Longchamps Point.

The Centroid lies on the Line through the Nine-Point Center and the Schiffler Point.

The Centroid lies on the Line through the Nine-Point Center and the Skordev Point.

The Centroid lies on the Line through the First Feuerbach Point and the Internal Center of Similitude of the Incircle and the Circumcircle.

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

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

The Centroid lies on the Line through the Exeter Point and the Orthocenter.

The Centroid lies on the Line through the Exeter Point and the Nine-Point Center.

The Centroid lies on the Line through the Exeter Point and the de Longchamps Point.

The Centroid lies on the Line through the Exeter Point and the Schiffler Point.

The Centroid lies on the Line through the Exeter Point and the Gibert Point.

The Centroid lies on the Line through the Exeter Point and the Skordev Point.

The Centroid lies on the Line through the Schiffler Point and the de Longchamps Point.

The Centroid lies on the Line through the Schiffler Point and the Skordev Point.

The Centroid lies on the Line through the Gibert Point and the Orthocenter.

The Centroid lies on the Line through the Gibert Point and the Nine-Point Center.

The Centroid lies on the Line through the Gibert Point and the de Longchamps Point.

The Centroid lies on the Line through the Gibert Point and the Schiffler Point.

The Centroid lies on the Line through the Gibert Point and the Skordev Point.

The Centroid lies on the Line through the Kosnita Point and the Prasolov Point.

The Centroid lies on the Line through the External Center of Similitude of the Incircle and the Circumcircle and the Second Feuerbach Point.

The Centroid lies on the Line through the Isogonal Conjugate of the Grinberg Point and the Symmedian Point.

The Centroid lies on the Line through the Isogonal Conjugate of the Grinberg Point and the Malfatti-Moses Point.

The Centroid lies on the Line through the Kiepert-Parry Point and the Tarry Point.

The Centroid lies on the Line through the Parry Point and the Steiner Point.

The Centroid lies on the Line through the Kiepert Center and the Steiner Point.

The Centroid lies on the Line through the Kiepert Center and the Parry Point.

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

The Centroid lies on the Line through the Inner Kenmotu Point and the Inner Vecten Point.

The Centroid lies on the Line through the Outer Kenmotu Point and the Outer Vecten Point.

The Centroid lies on the Line through the Skordev Point and the de Longchamps Point.

The Centroid lies on the Line through the Malfatti-Moses Point and the Symmedian Point.

The Centroid lies on the Line through the Incenter and the Nagel Point of the Anticomplementary Triangle.

The Centroid lies on the Line through the Circumcenter and the Circumcenter of the Tangential Triangle.

The Centroid lies on the Line through the Circumcenter and the Far-Out Point.

The Centroid lies on the Line through the Circumcenter and the Inverse of the Orthocenter in the Circumcircle.

The Centroid lies on the Line through the Circumcenter and the Complement of the Nine-Point Center.

The Centroid lies on the Line through the Symmedian Point and the Symmedian Point of the Medial Triangle.

The Centroid lies on the Line through the Symmedian Point and the Symmedian Point of the Anticomplementary Triangle.

The Centroid lies on the Line through the Gergonne Point and the Gergonne Point of the Anticomplementary Triangle.

The Centroid lies on the Line through the Gergonne Point and the Isogonal Conjugate of the Mittenpunkt.

The Centroid lies on the Line through the Nagel Point and the Nagel Point of the Anticomplementary Triangle.

The Centroid lies on the Line through the Exeter Point and the Far-Out Point.

The Centroid lies on the Line through the Exeter Point and the Inverse of the Orthocenter in the Circumcircle.

The Centroid lies on the Line through the Gibert Point and the Inverse of the Orthocenter in the Circumcircle.

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

The Centroid lies on the Line through the Brocard Midpoint and the Isotomic Conjugate of the Symmedian Point.

The Centroid lies on the Line through the Isogonal Conjugate of the Grinberg Point and the Symmedian Point of the Medial Triangle.

The Centroid lies on the Line through the Isogonal Conjugate of the Grinberg Point and the Symmedian Point of the Anticomplementary Triangle.

The Centroid lies on the Line through the Isogonal Conjugate of the Grinberg Point and the Isotomic Conjugate of the Spieker Center.

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

The Centroid lies on the Line through the Center of the van Lamoen Circle and the Schoute

Center.

The Centroid lies on the Line through the Malfatti-Moses Point and the Symmedian Point of the Medial Triangle.

The Centroid lies on the Line through the Malfatti-Moses Point and the Symmedian Point of the Anticomplementary Triangle.

The Centroid lies on the Line through the Incenter and the Perspector of Triangle ABC and the Orthic Triangle of the Extouch Triangle.

The Centroid lies on the Line through the Incenter and the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Centroid lies on the Line through the Incenter and the Midpoint of the Nagel Point and the Spieker Center.

The Centroid lies on the Line through the Incenter and the Internal Center of Similitude of the Bevan Circle and the Nine-Point Circle.

The Centroid lies on the Line through the Circumcenter and the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Centroid lies on the Line through the Circumcenter and the Midpoint of the Nine-Point Center and the Orthocenter.

The Centroid lies on the Line through the Nagel Point and the Perspector of Triangle ABC and the Orthic Triangle of the Extouch Triangle.

The Centroid lies on the Line through the Nagel Point and the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Centroid lies on the Line through the First Feuerbach Point and the Midpoint of the Incenter and the Mittenpunkt.

The Centroid lies on the Line through the First Feuerbach Point and the Midpoint of the Gergonne Point and the Nagel Point.

The Centroid lies on the Line through the First Feuerbach Point and the Internal Center of Similitude of the Nine-Point Circle and the Spieker Circle.

The Centroid lies on the Line through the Exeter Point and the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Centroid lies on the Line through the Exeter Point and the Midpoint of the Nine-Point Center and the Orthocenter.

The Centroid lies on the Line through the Gibert Point and the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Centroid lies on the Line through the Brocard Midpoint and the Perspector of the Symmedian Triangle and the Anticomplementary Triangle.

The Centroid lies on the Line through the Internal Center of Similitude of the Incircle and the Circumcircle and the Midpoint of the Incenter and the Mittenpunkt.

The Centroid lies on the Line through the Internal Center of Similitude of the Incircle and the Circumcircle and the Midpoint of the Gergonne Point and the Nagel Point.

The Centroid lies on the Line through the Internal Center of Similitude of the Incircle and the Circumcircle and the Internal Center of Similitude of the Nine-Point Circle and the Spieker Circle.

The Centroid lies on the Line through the External Center of Similitude of the Incircle and the Circumcircle and the Internal Center of Similitude of the Circumcircle and the Spieker Circle.

The Centroid lies on the Line through the External Center of Similitude of the Incircle and the Circumcircle and the External Center of Similitude of the Nine-Point Circle and the Spieker Circle.

The Centroid lies on the Line through the Isogonal Conjugate of the Grünberg Point and the Perspector of the Orthic Triangle and the Anticomplementary Triangle.

The Centroid lies on the Line through the Fuhrmann Center and the Midpoint of the Circumcenter and the Incenter.

The Centroid lies on the Line through the Fuhrmann Center and the Midpoint of the Nine-Point Center and the Spieker Center.

The Centroid lies on the Line through the Apollonius Point and the Internal Center of Similitude of the Apollonius Circle and the Spieker Circle.

The Centroid lies on the Line through the Malfatti-Moses Point and the Perspector of the Orthic Triangle and the Anticomplementary Triangle.

The Centroid lies on the Line through the Malfatti-Moses Point and the Midpoint of the Centroid and the Symmedian Point.

The Centroid lies on the Line through the Symmedian Point of the Anticomplementary Triangle and the Symmedian Point of the Medial Triangle.

The Centroid lies on the Line through the Gergonne Point of the Anticomplementary Triangle and the Isogonal Conjugate of the Mittenpunkt.

The Centroid lies on the Line through the Circumcenter of the Tangential Triangle and the Far-Out Point.

The Centroid lies on the Line through the Circumcenter of the Tangential Triangle and the

Inverse of the Orthocenter in the Circumcircle.

The Centroid lies on the Line through the Circumcenter of the Tangential Triangle and the Complement of the Nine-Point Center.

The Centroid lies on the Line through the Center of the Orthocentroidal Circle and the Circumcenter of the Tangential Triangle.

The Centroid lies on the Line through the Center of the Orthocentroidal Circle and the Far-Out Point.

The Centroid lies on the Line through the Center of the Orthocentroidal Circle and the Inverse of the Orthocenter in the Circumcircle.

The Centroid lies on the Line through the Center of the Orthocentroidal Circle and the Complement of the Nine-Point Center.

The Centroid lies on the Line through the Center of the Inner Johnson-Yff Circle and the Inverse of the Incenter in the Circumcircle.

The Centroid lies on the Line through the Far-Out Point and the Inverse of the Orthocenter in the Circumcircle.

The Centroid lies on the Line through the Complement of the Nine-Point Center and the Far-Out Point.

The Centroid lies on the Line through the Complement of the Nine-Point Center and the Inverse of the Orthocenter in the Circumcircle.

The Centroid lies on the Line through the Complement of the Mittenpunkt and the Gergonne Point of the Anticomplementary Triangle.

The Centroid lies on the Line through the Complement of the Mittenpunkt and the Isogonal Conjugate of the Mittenpunkt.

The Centroid lies on the Line through the Complement of the Spieker Center and the Nagel Point of the Anticomplementary Triangle.

The Centroid lies on the Line through the Isotomic Conjugate of the Spieker Center and the Symmedian Point of the Medial Triangle.

The Centroid lies on the Line through the Isotomic Conjugate of the Spieker Center and the Symmedian Point of the Anticomplementary Triangle.

The Centroid lies on the Line through the Centroid of the Excentral Triangle and the External Center of Similitude of the Bevan Circle and the Nine-Point Circle.

The Centroid lies on the Line through the Bevan Point and the Midpoint of the Incenter and the Orthocenter.

The Centroid lies on the Line through the Bevan Point and the Midpoint of the Circumcenter and the Spieker Center.

The Centroid lies on the Line through the Nagel Point of the Anticomplementary Triangle and the Perspector of Triangle ABC and the Orthic Triangle of the Extouch Triangle.

The Centroid lies on the Line through the Nagel Point of the Anticomplementary Triangle and the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Centroid lies on the Line through the Circumcenter of the Tangential Triangle and the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Centroid lies on the Line through the Circumcenter of the Tangential Triangle and the Midpoint of the Centroid and the Circumcenter.

The Centroid lies on the Line through the Circumcenter of the Tangential Triangle and the Midpoint of the Nine-Point Center and the Orthocenter.

The Centroid lies on the Line through the Center of the Orthocentroidal Circle and the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Centroid lies on the Line through the Center of the Orthocentroidal Circle and the Midpoint of the Nine-Point Center and the Orthocenter.

The Centroid lies on the Line through the Far-Out Point and the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Centroid lies on the Line through the Far-Out Point and the Midpoint of the Nine-Point Center and the Orthocenter.

The Centroid lies on the Line through the Inverse of the Orthocenter in the Circumcircle and the Midpoint of the Centroid and the Circumcenter.

The Centroid lies on the Line through the Inverse of the Orthocenter in the Circumcircle and the Midpoint of the Nine-Point Center and the Orthocenter.

The Centroid lies on the Line through the Complement of the Nine-Point Center and the Homothetic Center of the Orthic Triangle and the Tangential Triangle.

The Centroid lies on the Line through the Complement of the Nine-Point Center and the Midpoint of the Nine-Point Center and the Orthocenter.

The Centroid lies on the Line through the Complement of the Spieker Center and the Perspector of Triangle ABC and the Orthic Triangle of the Extouch Triangle.

The Centroid lies on the Line through the Complement of the Spieker Center and the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Centroid lies on the Line through the Complement of the Spieker Center and the

Midpoint of the Nagel Point and the Spieker Center.

The Centroid lies on the Line through the Complement of the Spieker Center and the Internal Center of Similitude of the Bevan Circle and the Nine-Point Circle.

The Centroid lies on the Line through the Complement of the Spieker Center and the External Center of Similitude of the Apollonius Circle and the Circumcircle.

The Centroid lies on the Line through the Isotomic Conjugate of the Circumcenter and the Perspector of Triangle ABC and the Symmedial Triangle of the Orthic Triangle.

The Centroid lies on the Line through the Isotomic Conjugate of the Symmedian Point and the Perspector of the Symmedial Triangle and the Anticomplementary Triangle.

The Centroid lies on the Line through the Isotomic Conjugate of the Spieker Center and the Perspector of the Orthic Triangle and the Anticomplementary Triangle.

The Centroid lies on the Line through the Isotomic Conjugate of the Spieker Center and the Midpoint of the Centroid and the Symmedian Point.

The Centroid lies on the Line through the Perspector of Triangle ABC and the Orthic Triangle of the Extouch Triangle and the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Centroid lies on the Line through the Homothetic Center of the Orthic Triangle and the Tangential Triangle and the Midpoint of the Nine-Point Center and the Orthocenter.

The Centroid lies on the Line through the Midpoint of the Circumcenter and the Incenter and the Midpoint of the Nine-Point Center and the Spieker Center.

The Centroid lies on the Line through the Midpoint of the Circumcenter and the Gergonne Point and the Midpoint of the Mittenpunkt and the Nine-Point Center.

The Centroid lies on the Line through the Midpoint of the Circumcenter and the Nagel Point and the Midpoint of the Incenter and the Nine-Point Center.

The Centroid lies on the Line through the Midpoint of the Circumcenter and the Mittenpunkt and the Midpoint of the Gergonne Point and the Orthocenter.

The Centroid lies on the Line through the Midpoint of the Circumcenter and the Spieker Center and the Midpoint of the Incenter and the Orthocenter.

The Centroid lies on the Line through the Midpoint of the Gergonne Point and the Incenter and the Midpoint of the Mittenpunkt and the Spieker Center.

The Centroid lies on the Line through the Midpoint of the Gergonne Point and the Nagel Point and the Midpoint of the Incenter and the Mittenpunkt.

The Centroid lies on the Line through the Midpoint of the Nagel Point and the Spieker

Center and the Perspector of Triangle ABC and the Orthic Triangle of the Extouch Triangle.

The Centroid lies on the Line through the Midpoint of the Nagel Point and the Spieker Center and the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Centroid lies on the Line through the Internal Center of Similitude of the Nine-Point Circle and the Spieker Circle and the Midpoint of the Incenter and the Mittenpunkt.

The Centroid lies on the Line through the Internal Center of Similitude of the Nine-Point Circle and the Spieker Circle and the Midpoint of the Gergonne Point and the Nagel Point.

The Centroid lies on the Line through the Internal Center of Similitude of the Bevan Circle and the Nine-Point Circle and the Perspector of Triangle ABC and the Orthic Triangle of the Extouch Triangle.

The Centroid lies on the Line through the Internal Center of Similitude of the Bevan Circle and the Nine-Point Circle and the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Centroid lies on the Line through the Internal Center of Similitude of the Bevan Circle and the Nine-Point Circle and the Midpoint of the Nagel Point and the Spieker Center.

The Centroid lies on the Line through the External Center of Similitude of the Circumcircle and the Spieker Circle and the Midpoint of the Incenter and the Mittenpunkt.

The Centroid lies on the Line through the External Center of Similitude of the Circumcircle and the Spieker Circle and the Midpoint of the Gergonne Point and the Nagel Point.

The Centroid lies on the Line through the External Center of Similitude of the Circumcircle and the Spieker Circle and the Internal Center of Similitude of the Nine-Point Circle and the Spieker Circle.

The Centroid lies on the Line through the External Center of Similitude of the Nine-Point Circle and the Spieker Circle and the Internal Center of Similitude of the Circumcircle and the Spieker Circle.

The Centroid lies on the Line through the External Center of Similitude of the Bevan Circle and the Spieker Circle and the Internal Center of Similitude of the Bevan Circle and the Incircle.

The Centroid lies on the Line through the External Center of Similitude of the Apollonius Circle and the Circumcircle and the Perspector of Triangle ABC and the Orthic Triangle of the Extouch Triangle.

The Centroid lies on the Line through the External Center of Similitude of the Apollonius Circle and the Circumcircle and the Perspector of the Symmedial Triangle and the Excentral Triangle.

The Centroid lies on the Line through the External Center of Similitude of the Apollonius

Circle and the Circumcircle and the Midpoint of the Nagel Point and the Spieker Center.

The Centroid 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 Bevan Circle and the Nine-Point Circle.

The Centroid lies on the Line through the External Center of Similitude of the Apollonius Circle and the Nine-Point Circle and the Internal Center of Similitude of the Apollonius Circle and the Circumcircle.

The Centroid lies on the Line through the External Center of Similitude of the Apollonius Circle and the Spieker Circle and the Internal Center of Similitude of the Apollonius Circle and the Incircle.

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 and Conventions

We use the definitions and conventions in accordance with [1 - 6] 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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