

1st inner-Fermat-Dao-Nhi equilateral triangle

Orthologic triangles and orthologic centers:

(ABC, 15682, 14), (ABC-X3 reflections, 15682, 5474), (anti-Aquila, 15682, 11706), (anti-Ara, 15682, 12141), (anti-Artzt, 5863, 12154), (1st anti-Brocard, 36318, 5978), (5th anti-Brocard, 15682, 12204), (6th anti-Brocard, 36318, 12213), (2nd anti-circumperp-tangential, 15682, 18975), (anti-Euler, 15682, 6773), (anti-inner-Grebe, 15682, 19075), (anti-outer-Grebe, 15682, 19076), (anti-Mandart-incircle, 15682, 12336), (anti-McCay, 35690, 8594), (3rd anti-tri-squares, 36333, 22603), (4th anti-tri-squares, 36332, 22632), (anticomplementary, 15682, 617), (Aquila, 15682, 9900), (Ara, 15682, 9915), (Artzt, 5863, 9760), (1st Auriga, 15682, 12470), (2nd Auriga, 15682, 12471), (Bankoff, 35749, 35748), (1st Brocard-reflected, 36322, 22689), (1st Brocard, 36318, 3642), (5th Brocard, 15682, 9981), (6th Brocard, 36318, 9988), (circumnormal, 0, 13594), (2nd circumperp tangential, 15682, 22774), (circumtangential, 0, 13593), (Ehrmann-mid, 15682, 22797), (Euler, 15682, 5479), (inner-Fermat, 33624, 14), (outer-Fermat, 36326, 617), (1st Fermat-Dao, 36328, 25208), (3rd Fermat-Dao, 35749, 5470), (4th Fermat-Dao, 2, 16268), (5th Fermat-Dao, 36328, 25162), (7th Fermat-Dao, 35749, 115), (8th Fermat-Dao, 2, 395), (9th Fermat-Dao, 36328, 25163), (11th Fermat-Dao, 35749, 25164), (12th Fermat-Dao, 2, 381), (13th Fermat-Dao, 36328, 25165), (15th Fermat-Dao, 35749, 25166), (16th Fermat-Dao, 2, 14), (2nd inner-Fermat-Dao-Nhi, 2, 2), (3rd inner-Fermat-Dao-Nhi, 35749, 36329), (4th inner-Fermat-Dao-Nhi, 35749, 36330), (1st outer-Fermat-Dao-Nhi, 35749, 36327), (2nd outer-Fermat-Dao-Nhi, 35749, 36331), (3rd outer-Fermat-Dao-Nhi, 2, 2), (4th outer-Fermat-Dao-Nhi, 2, 2), (outer-Garcia, 15682, 12780), (Gossard, 15682, 12792), (inner-Grebe, 15682, 6271), (outer-Grebe, 15682, 6269), (1st half-diamonds-central, 35749, 5460), (2nd half-diamonds-central, 2, 2), (1st half-diamonds, 33624, 619), (2nd half-diamonds, 36326, 14), (1st half-squares, 36332, 33442), (2nd half-squares, 36333, 33443), (1st isodynamic-Dao, 35749, 22997), (2nd isodynamic-Dao, 2, 14), (3rd isodynamic-Dao, 35749, 31709), (4th isodynamic-Dao, 2, 14), (Johnson, 15682, 5613), (inner-Johnson, 15682, 12921), (outer-Johnson, 15682, 12931), (1st Johnson-Yff, 15682, 12941), (2nd Johnson-Yff, 15682, 12951), (1st Kenmotu-free-vertices, 15682, 35850), (2nd Kenmotu-free-vertices, 15682, 35851), (1st Lemoine-Dao, 35749, 14), (2nd Lemoine-Dao, 2, 10653), (outer-Le Viet An, 36328, 14177), (Lucas homothetic, 15682, 12988), (Lucas(-1) homothetic, 15682, 12989), (Mandart-incircle, 15682, 13075), (McCay, 35690, 13083), (medial, 15682, 619), (5th mixtilinear, 15682, 7974), (1st Morley-midpoint, 0, 0), (2nd Morley-midpoint, 0, 0), (3rd Morley-midpoint, 0, 0), (1st Morley, 0, 0), (2nd Morley, 0, 0), (3rd Morley, 0, 0), (Moses-Steiner osculatory, 35690, 34508), (inner-Napoleon, 2, 2), (outer-Napoleon, 35749, 5464), (1st Neuberg, 36336, 6295), (2nd Neuberg, 36337, 6299), (Roussel, 0, 0), (Stammler, 0, 8009), (1st tri-squares-central, 36341, 13703), (2nd tri-squares-central, 36343, 13823), (3rd tri-squares-central, 15682, 13916), (4th tri-squares-central, 15682, 13981), (1st tri-squares, 5863, 13645), (2nd tri-squares, 5863, 13764), (3rd tri-squares, 36332, 13875), (4th tri-squares, 36333, 13928), (inner-Vecten, 36333, 6303), (outer-Vecten, 36332, 6307), (X3-ABC reflections, 15682, 13102), (inner-Yff, 15682, 10061), (outer-Yff, 15682, 10077), (inner-Yff tangents, 15682, 13104), (outer-Yff tangents, 15682, 13106)

Parallelogic triangles and parallelogic centers:

(Bankoff, 35750, 35759), (circumnormal, 0, 13593), (circumtangential, 0, 13594), (1st Fermat-Dao, 36354, 25213), (3rd Fermat-Dao, 35750, 16529), (5th Fermat-Dao, 36354, 25230), (7th Fermat-Dao, 35750, 9117), (9th Fermat-Dao, 36354, 25232), (11th Fermat-Dao, 35750, 5613), (13th Fermat-Dao, 36354, 25234), (15th Fermat-Dao, 35750, 25236), (3rd inner-Fermat-Dao-Nhi, 35750, 36330), (4th inner-Fermat-Dao-Nhi, 35750, 36329), (1st outer-Fermat-Dao-Nhi, 35750, 36331), (2nd outer-Fermat-Dao-Nhi, 35750, 36327), (1st half-diamonds-central, 35750, 619), (1st isodynamic-Dao, 35750, 23004), (3rd isodynamic-Dao, 35750, 6783), (1st Lemoine-Dao, 35750, 23013), (outer-Le Viet An, 36354, 14185), (1st Morley-midpoint, 0, 0), (2nd Morley-midpoint, 0, 0), (3rd Morley-midpoint, 0, 0), (1st Morley, 0, 0), (2nd Morley, 0, 0), (3rd Morley, 0, 0), (outer-Napoleon, 35750, 14), (1st Parry, 15682, 13304), (2nd Parry, 15682, 9201), (Roussel, 0, 0), (Stammler, 0, 8008)

Note: Centers 0 mean not calculated yet

1st outer-Fermat-Dao-Nhi equilateral triangle

Orthologic triangles and orthologic centers:

(ABC, 15682, 13), (ABC-X3 reflections, 15682, 5473), (anti-Aquila, 15682, 11705), (anti-Ara, 15682, 12142), (anti-Artzt, 5862, 12155), (1st anti-Brocard, 36320, 5979), (5th anti-Brocard, 15682, 12205), (6th anti-Brocard, 36320, 12214), (2nd anti-circumperp-tangential, 15682, 18974), (anti-Euler, 15682, 6770), (anti-inner-Grebe, 15682, 19073), (anti-outer-Grebe, 15682, 19074), (anti-Mandart-incircle, 15682, 12337), (anti-McCay, 35694, 8595), (3rd anti-tri-squares, 36335, 22601), (4th anti-tri-squares, 36334, 22630), (anticomplementary, 15682, 616), (Aquila, 15682, 9901), (Ara, 15682, 9916), (Artzt, 5862, 9762), (1st Auriga, 15682, 12472), (2nd Auriga, 15682, 12473), (Bankoff, 2, 34551), (1st Brocard-reflected, 36323, 22687), (1st Brocard, 36320, 3643), (5th Brocard, 15682, 9982), (6th Brocard, 36320, 9989), (2nd circumperp tangential, 15682, 22773), (Ehrmann-mid, 15682, 22796), (Euler, 15682, 5478), (inner-Fermat, 36324, 616), (outer-Fermat, 33622, 13), (2nd Fermat-Dao, 36325, 25207), (3rd Fermat-Dao, 2, 16267), (4th Fermat-Dao, 36327, 5469), (6th Fermat-Dao, 36325, 25152), (7th Fermat-Dao, 2, 396), (8th Fermat-Dao, 36327, 115), (10th Fermat-Dao, 36325, 25153), (11th Fermat-Dao, 2, 381), (12th Fermat-Dao, 36327, 25154), (14th Fermat-Dao, 36325, 25155), (15th Fermat-Dao, 2, 13), (16th Fermat-Dao, 36327, 25156), (1st inner-Fermat-Dao-Nhi, 36327, 35749), (2nd inner-Fermat-Dao-Nhi, 36327, 35750), (3rd inner-Fermat-Dao-Nhi, 2, 2), (4th inner-Fermat-Dao-Nhi, 2, 2), (2nd outer-Fermat-Dao-Nhi, 2, 2), (3rd outer-Fermat-Dao-Nhi, 36327, 35751), (4th outer-Fermat-Dao-Nhi, 36327, 35752), (outer-Garcia, 15682, 12781), (Gossard, 15682, 12793), (inner-Grebe, 15682, 6270), (outer-Grebe, 15682, 6268), (1st half-diamonds-central, 2, 2), (2nd half-diamonds-central, 36327, 5459), (1st half-diamonds, 36324, 13), (2nd half-diamonds, 33622, 618), (1st half-squares, 36334, 33440), (2nd half-squares, 36335, 33441), (1st isodynamic-Dao, 2, 13), (2nd isodynamic-Dao, 36327, 22998), (3rd isodynamic-Dao, 2, 13), (4th isodynamic-Dao, 36327, 31710), (Johnson, 15682, 5617), (inner-Johnson, 15682, 12922), (outer-Johnson, 15682, 12932), (1st Johnson-Yff, 15682, 12942), (2nd Johnson-Yff, 15682, 12952), (1st Kenmotu-free-vertices, 15682, 35753), (2nd Kenmotu-free-vertices, 15682, 35754), (1st Lemoine-Dao, 2, 10654), (2nd Lemoine-Dao, 36327, 13), (inner-Le Viet An, 36325, 14181), (Lucas homothetic, 15682, 12990), (Lucas(-1) homothetic, 15682, 12991), (Mandart-incircle, 15682, 13076), (McCay, 35694, 13084), (medial, 15682, 618), (5th mixtilinear, 15682, 7975), (Moses-Steiner osculatory, 35694, 34509), (inner-Napoleon, 36327, 5463), (outer-Napoleon, 2, 2), (1st Neuberg, 36338, 6582), (2nd Neuberg, 36339, 6298), (1st tri-squares-central, 36340, 13705), (2nd tri-squares-central, 36342, 13825), (3rd tri-squares-central, 15682, 13917), (4th tri-squares-central, 15682, 13982), (1st tri-squares, 5862, 13646), (2nd tri-squares, 5862, 13765), (3rd tri-squares, 36334, 13876), (4th tri-squares, 36335, 13929), (inner-Vecten, 36335, 6302), (outer-Vecten, 36334, 6306), (X3-ABC reflections, 15682, 13103), (inner-Yff, 15682, 10062), (outer-Yff, 15682, 10078), (inner-Yff tangents, 15682, 13105), (outer-Yff tangents, 15682, 13107)

Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 36321, 25216), (4th Fermat-Dao, 36331, 16530), (6th Fermat-Dao, 36321, 25229), (8th Fermat-Dao, 36331, 9115), (10th Fermat-Dao, 36321, 25231), (12th Fermat-Dao, 36331, 5617), (14th Fermat-Dao, 36321, 25233), (16th Fermat-Dao, 36331, 25235), (1st inner-Fermat-Dao-Nhi, 36331, 35750), (2nd inner-Fermat-Dao-Nhi, 36331, 35749), (3rd outer-Fermat-Dao-Nhi, 36331, 35752), (4th outer-Fermat-Dao-Nhi, 36331, 35751), (2nd half-diamonds-central, 36331, 618), (2nd isodynamic-Dao, 36331, 23005), (4th isodynamic-Dao, 36331, 6782), (2nd Lemoine-Dao, 36331, 23006), (inner-Le Viet An, 36321, 14187), (inner-Napoleon, 36331, 13), (1st Parry, 15682, 13305), (2nd Parry, 15682, 9200)

2nd inner-Fermat-Dao-Nhi equilateral triangle

Orthologic triangles and orthologic centers:

(ABC, 11001, 14), (ABC-X3 reflections, 11001, 5474), (anti-Aquila, 11001, 11706), (anti-Ara, 11001, 12141), (anti-Artzt, 5862, 12154), (1st anti-Brocard, 36344, 5978), (5th anti-Brocard, 11001, 12204), (6th anti-Brocard, 36344, 12213), (2nd anti-circumperp-tangential, 11001, 18975), (anti-Euler, 11001, 6773), (anti-inner-Grebe, 11001, 19075), (anti-outer-Grebe, 11001, 19076), (anti-Mandart-incircle, 11001, 12336), (anti-McCay, 35691, 8594), (3rd anti-tri-squares, 36357, 22603), (4th anti-tri-squares, 36356, 22632), (anticomplementary, 11001, 617), (Aquila, 11001, 9900), (Ara, 11001, 9915), (Artzt, 5862, 9760), (1st Auriga, 11001, 12470), (2nd Auriga, 11001, 12471), (Bankoff, 35750, 35748), (1st Brocard-reflected, 36347, 22689), (1st Brocard, 36344, 3642), (5th Brocard, 11001, 9981), (6th Brocard, 36344, 9988), (circumnormal, 0, 13594), (2nd circumperp tangential, 11001, 22774), (circumtangential, 0, 13593), (Ehrmann-mid, 11001, 22797), (Euler, 11001, 5479), (inner-Fermat, 33627, 14), (outer-Fermat, 36352, 617), (1st Fermat-Dao, 36354, 25208), (3rd Fermat-Dao, 35750, 5470), (4th Fermat-Dao, 2, 16268), (5th Fermat-Dao, 36354, 25162), (7th Fermat-Dao, 35750, 115), (8th Fermat-Dao, 2, 395), (9th Fermat-Dao, 36354, 25163), (11th Fermat-Dao, 35750, 25164), (12th Fermat-Dao, 2, 381), (13th Fermat-Dao, 36354, 25165), (15th Fermat-Dao, 35750, 25166), (16th Fermat-Dao, 2, 14), (1st inner-Fermat-Dao-Nhi, 2, 2), (3rd inner-Fermat-Dao-Nhi, 35750, 36329), (4th inner-Fermat-Dao-Nhi, 35750, 36330), (1st outer-Fermat-Dao-Nhi, 35750, 36327), (2nd outer-Fermat-Dao-Nhi, 35750, 36331), (3rd outer-Fermat-Dao-Nhi, 2, 2), (4th outer-Fermat-Dao-Nhi, 2, 2), (outer-Garcia, 11001, 12780), (Gossard, 11001, 12792), (inner-Grebe, 11001, 6271), (outer-Grebe, 11001, 6269), (1st half-diamonds-central, 35750, 5460), (2nd half-diamonds-central, 2, 2), (1st half-diamonds, 33627, 619), (2nd half-diamonds, 36352, 14), (1st half-squares, 36356, 33442), (2nd half-squares, 36357, 33443), (1st isodynamic-Dao, 35750, 22997), (2nd isodynamic-Dao, 2, 14), (3rd isodynamic-Dao, 35750, 31709), (4th isodynamic-Dao, 2, 14), (Johnson, 11001, 5613), (inner-Johnson, 11001, 12921), (outer-Johnson, 11001, 12931), (1st Johnson-Yff, 11001, 12941), (2nd Johnson-Yff, 11001, 12951), (1st Kenmotu-free-vertices, 11001, 35850), (2nd Kenmotu-free-vertices, 11001, 35851), (1st Lemoine-Dao, 35750, 14), (2nd Lemoine-Dao, 2, 10653), (outer-Le Viet An, 36354, 14177), (Lucas homothetic, 11001, 12988), (Lucas(-1) homothetic, 11001, 12989), (Mandart-incircle, 11001, 13075), (McCay, 35691, 13083), (medial, 11001, 619), (5th mixtilinear, 11001, 7974), (1st Morley-midpoint, 0, 0), (2nd Morley-midpoint, 0, 0), (3rd Morley-midpoint, 0, 0), (1st Morley, 0, 0), (2nd Morley, 0, 0), (3rd Morley, 0, 0), (Moses-Steiner osculatory, 35691, 34508), (inner-Napoleon, 2, 2), (outer-Napoleon, 35750, 5464), (1st Neuberg, 36358, 6295), (2nd Neuberg, 36359, 6299), (Roussel, 0, 0), (Stammler, 0, 8009), (1st tri-squares-central, 36360, 13703), (2nd tri-squares-central, 36361, 13823), (3rd tri-squares-central, 11001, 13916), (4th tri-squares-central, 11001, 13981), (1st tri-squares, 5862, 13645), (2nd tri-squares, 5862, 13764), (3rd tri-squares, 36356, 13875), (4th tri-squares, 36357, 13928), (inner-Vecten, 36357, 6303), (outer-Vecten, 36356, 6307), (X3-ABC reflections, 11001, 13102), (inner-Yff, 11001, 10061), (outer-Yff, 11001, 10077), (inner-Yff tangents, 11001, 13104), (outer-Yff tangents, 11001, 13106)

Parallelogic triangles and parallelogic centers:

(Bankoff, 35749, 35759), (circumnormal, 0, 13593), (circumtangential, 0, 13594), (1st Fermat-Dao, 36328, 25213), (3rd Fermat-Dao, 35749, 16529), (5th Fermat-Dao, 36328, 25230), (7th Fermat-Dao, 35749, 9117), (9th Fermat-Dao, 36328, 25232), (11th Fermat-Dao, 35749, 5613), (13th Fermat-Dao, 36328, 25234), (15th Fermat-Dao, 35749, 25236), (3rd inner-Fermat-Dao-Nhi, 35749, 36330), (4th inner-Fermat-Dao-Nhi, 35749, 36329), (1st outer-Fermat-Dao-Nhi, 35749, 36331), (2nd outer-Fermat-Dao-Nhi, 35749, 36327), (1st half-diamonds-central, 35749, 619), (1st isodynamic-Dao, 35749, 23004), (3rd isodynamic-Dao, 35749, 6783), (1st Lemoine-Dao, 35749, 23013), (outer-Le Viet An, 36328, 14185), (1st Morley-midpoint, 0, 0), (2nd Morley-midpoint, 0, 0), (3rd Morley-midpoint, 0, 0), (1st Morley, 0, 0), (2nd Morley, 0, 0), (3rd Morley, 0, 0), (outer-Napoleon, 35749, 14), (1st Parry, 11001, 13304), (2nd Parry, 11001, 9201), (Roussel, 0, 0), (Stammler, 0, 8008)

Note: Centers 0 mean not calculated yet

2nd outer-Fermat-Dao-Nhi equilateral triangle

Orthologic triangles and orthologic centers:

(ABC, 11001, 13), (ABC-X3 reflections, 11001, 5473), (anti-Aquila, 11001, 11705), (anti-Ara, 11001, 12142), (anti-Artzt, 5863, 12155), (1st anti-Brocard, 36319, 5979), (5th anti-Brocard, 11001, 12205), (6th anti-Brocard, 36319, 12214), (2nd anti-circumperp-tangential, 11001, 18974), (anti-Euler, 11001, 6770), (anti-inner-Grebe, 11001, 19073), (anti-outer-Grebe, 11001, 19074), (anti-Mandart-incircle, 11001, 12337), (anti-McCay, 35695, 8595), (3rd anti-tri-squares, 36349, 22601), (4th anti-tri-squares, 36348, 22630), (anticomplementary, 11001, 616), (Aquila, 11001, 9901), (Ara, 11001, 9916), (Artzt, 5863, 9762), (1st Auriga, 11001, 12472), (2nd Auriga, 11001, 12473), (Bankoff, 2, 34551), (1st Brocard-reflected, 36345, 22687), (1st Brocard, 36319, 3643), (5th Brocard, 11001, 9982), (6th Brocard, 36319, 9989), (2nd circumperp tangential, 11001, 22773), (Ehrmann-mid, 11001, 22796), (Euler, 11001, 5478), (inner-Fermat, 36346, 616), (outer-Fermat, 33626, 13), (2nd Fermat-Dao, 36321, 25207), (3rd Fermat-Dao, 2, 16267), (4th Fermat-Dao, 36331, 5469), (6th Fermat-Dao, 36321, 25152), (7th Fermat-Dao, 2, 396), (8th Fermat-Dao, 36331, 115), (10th Fermat-Dao, 36321, 25153), (11th Fermat-Dao, 2, 381), (12th Fermat-Dao, 36331, 25154), (14th Fermat-Dao, 36321, 25155), (15th Fermat-Dao, 2, 13), (16th Fermat-Dao, 36331, 25156), (1st inner-Fermat-Dao-Nhi, 36331, 35749), (2nd inner-Fermat-Dao-Nhi, 36331, 35750), (3rd inner-Fermat-Dao-Nhi, 2, 2), (4th inner-Fermat-Dao-Nhi, 2, 2), (1st outer-Fermat-Dao-Nhi, 2, 2), (3rd outer-Fermat-Dao-Nhi, 36331, 35751), (4th outer-Fermat-Dao-Nhi, 36331, 35752), (outer-Garcia, 11001, 12781), (Gossard, 11001, 12793), (inner-Grebe, 11001, 6270), (outer-Grebe, 11001, 6268), (1st half-diamonds-central, 2, 2), (2nd half-diamonds-central, 36331, 5459), (1st half-diamonds, 36346, 13), (2nd half-diamonds, 33626, 618), (1st half-squares, 36348, 33440), (2nd half-squares, 36349, 33441), (1st isodynamic-Dao, 2, 13), (2nd isodynamic-Dao, 36331, 22998), (3rd isodynamic-Dao, 2, 13), (4th isodynamic-Dao, 36331, 31710), (Johnson, 11001, 5617), (inner-Johnson, 11001, 12922), (outer-Johnson, 11001, 12932), (1st Johnson-Yff, 11001, 12942), (2nd Johnson-Yff, 11001, 12952), (1st Kenmotu-free-vertices, 11001, 35753), (2nd Kenmotu-free-vertices, 11001, 35754), (1st Lemoine-Dao, 2, 10654), (2nd Lemoine-Dao, 36331, 13), (inner-Le Viet An, 36321, 14181), (Lucas homothetic, 11001, 12990), (Lucas(-1) homothetic, 11001, 12991), (Mandart-incircle, 11001, 13076), (McCay, 35695, 13084), (medial, 11001, 618), (5th mixtilinear, 11001, 7975), (Moses-Steiner osculatory, 35695, 34509), (inner-Napoleon, 36331, 5463), (outer-Napoleon, 2, 2), (1st Neuberg, 36350, 6582), (2nd Neuberg, 36351, 6298), (1st tri-squares-central, 36353, 13705), (2nd tri-squares-central, 36355, 13825), (3rd tri-squares-central, 11001, 13917), (4th tri-squares-central, 11001, 13982), (1st tri-squares, 5863, 13646), (2nd tri-squares, 5863, 13765), (3rd tri-squares, 36348, 13876), (4th tri-squares, 36349, 13929), (inner-Vecten, 36349, 6302), (outer-Vecten, 36348, 6306), (X3-ABC reflections, 11001, 13103), (inner-Yff, 11001, 10062), (outer-Yff, 11001, 10078), (inner-Yff tangents, 11001, 13105), (outer-Yff tangents, 11001, 13107)

Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 36325, 25216), (4th Fermat-Dao, 36327, 16530), (6th Fermat-Dao, 36325, 25229), (8th Fermat-Dao, 36327, 9115), (10th Fermat-Dao, 36325, 25231), (12th Fermat-Dao, 36327, 5617), (14th Fermat-Dao, 36325, 25233), (16th Fermat-Dao, 36327, 25235), (1st inner-Fermat-Dao-Nhi, 36327, 35750), (2nd inner-Fermat-Dao-Nhi, 36327, 35749), (3rd outer-Fermat-Dao-Nhi, 36327, 35752), (4th outer-Fermat-Dao-Nhi, 36327, 35751), (2nd half-diamonds-central, 36327, 618), (2nd isodynamic-Dao, 36327, 23005), (4th isodynamic-Dao, 36327, 6782), (2nd Lemoine-Dao, 36327, 23006), (inner-Le Viet An, 36325, 14187), (inner-Napoleon, 36327, 13), (1st Parry, 11001, 13305), (2nd Parry, 11001, 9200)

3rd inner-Fermat-Dao-Nhi equilateral triangle

Orthologic triangles and orthologic centers:

(ABC, 3534, 13), (ABC-X3 reflections, 3534, 5473), (anti-Aquila, 3534, 11705), (anti-Ara, 3534, 12142), (anti-Artzt, 5859, 12155), (1st anti-Brocard, 36362, 5979), (5th anti-Brocard, 3534, 12205), (6th anti-Brocard, 36362, 12214), (2nd anti-circumperptangential, 3534, 18974), (anti-Euler, 3534, 6770), (anti-inner-Grebe, 3534, 19073), (anti-outer-Grebe, 3534, 19074), (anti-Mandart-incircle, 3534, 12337), (anti-McCay, 35692, 8595), (3rd anti-tri-squares, 36371, 22601), (4th anti-tri-squares, 36370, 22630), (anticomplementary, 3534, 616), (Aquila, 3534, 9901), (Ara, 3534, 9916), (Artzt, 5859, 9762), (1st Auriga, 3534, 12472), (2nd Auriga, 3534, 12473), (Bankoff, 2, 34551), (1st Brocard-reflected, 36364, 22687), (1st Brocard, 36362, 3643), (5th Brocard, 3534, 9982), (6th Brocard, 36362, 9989), (2nd circumperp tangential, 3534, 22773), (Ehrmann-mid, 3534, 22796), (Euler, 3534, 5478), (inner-Fermat, 33624, 616), (outer-Fermat, 36366, 13), (2nd Fermat-Dao, 36367, 25207), (3rd Fermat-Dao, 2, 16267), (4th Fermat-Dao, 36329, 5469), (6th Fermat-Dao, 36367, 25152), (7th Fermat-Dao, 2, 396), (8th Fermat-Dao, 36329, 115), (10th Fermat-Dao, 36367, 25153), (11th Fermat-Dao, 2, 381), (12th Fermat-Dao, 36329, 25154), (14th Fermat-Dao, 36367, 25155), (15th Fermat-Dao, 2, 13), (16th Fermat-Dao, 36329, 25156), (1st inner-Fermat-Dao-Nhi, 36329, 35749), (2nd inner-Fermat-Dao-Nhi, 36329, 35750), (4th inner-Fermat-Dao-Nhi, 2, 2), (1st outer-Fermat-Dao-Nhi, 2, 2), (2nd outer-Fermat-Dao-Nhi, 2, 2), (3rd outer-Fermat-Dao-Nhi, 36329, 35751), (4th outer-Fermat-Dao-Nhi, 36329, 35752), (outer-Garcia, 3534, 12781), (Gossard, 3534, 12793), (inner-Grebe, 3534, 6270), (outer-Grebe, 3534, 6268), (1st half-diamonds-central, 2, 2), (2nd half-diamonds-central, 36329, 5459), (1st half-diamonds, 33624, 13), (2nd half-diamonds, 36366, 618), (1st half-squares, 36370, 33440), (2nd half-squares, 36371, 33441), (1st isodynamic-Dao, 2, 13), (2nd isodynamic-Dao, 36329, 22998), (3rd isodynamic-Dao, 2, 13), (4th isodynamic-Dao, 36329, 31710), (Johnson, 3534, 5617), (inner-Johnson, 3534, 12922), (outer-Johnson, 3534, 12932), (1st Johnson-Yff, 3534, 12942), (2nd Johnson-Yff, 3534, 12952), (1st Kenmotu-free-vertices, 3534, 35753), (2nd Kenmotu-free-vertices, 3534, 35754), (1st Lemoine-Dao, 2, 10654), (2nd Lemoine-Dao, 36329, 13), (inner-Le Viet An, 36367, 14181), (Lucas homothetic, 3534, 12990), (Lucas(-1) homothetic, 3534, 12991), (Mandart-incircle, 3534, 13076), (McCay, 35692, 13084), (medial, 3534, 618), (5th mixtilinear, 3534, 7975), (Moses-Steiner osculatory, 35692, 34509), (inner-Napoleon, 36329, 5463), (outer-Napoleon, 2, 2), (1st Neuberg, 36373, 6582), (2nd Neuberg, 36375, 6298), (1st tri-squares-central, 36376, 13705), (2nd tri-squares-central, 36377, 13825), (3rd tri-squares-central, 3534, 13917), (4th tri-squares-central, 3534, 13982), (1st tri-squares, 5859, 13646), (2nd tri-squares, 5859, 13765), (3rd tri-squares, 36370, 13876), (4th tri-squares, 36371, 13929), (inner-Vecten, 36371, 6302), (outer-Vecten, 36370, 6306), (X3-ABC reflections, 3534, 13103), (inner-Yff, 3534, 10062), (outer-Yff, 3534, 10078), (inner-Yff tangents, 3534, 13105), (outer-Yff tangents, 3534, 13107)

Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 36387, 25216), (4th Fermat-Dao, 36330, 16530), (6th Fermat-Dao, 36387, 25229), (8th Fermat-Dao, 36330, 9115), (10th Fermat-Dao, 36387, 25231), (12th Fermat-Dao, 36330, 5617), (14th Fermat-Dao, 36387, 25233), (16th Fermat-Dao, 36330, 25235), (1st inner-Fermat-Dao-Nhi, 36330, 35750), (2nd inner-Fermat-Dao-Nhi, 36330, 35749), (3rd outer-Fermat-Dao-Nhi, 36330, 35752), (4th outer-Fermat-Dao-Nhi, 36330, 35751), (2nd half-diamonds-central, 36330, 618), (2nd isodynamic-Dao, 36330, 23005), (4th isodynamic-Dao, 36330, 6782), (2nd Lemoine-Dao, 36330, 23006), (inner-Le Viet An, 36387, 14187), (inner-Napoleon, 36330, 13), (1st Parry, 3534, 13305), (2nd Parry, 3534, 9200)

Note: Centers 0 mean not calculated yet

3rd outer-Fermat-Dao-Nhi equilateral triangle

Orthologic triangles and orthologic centers:

(ABC, 3534, 14), (ABC-X3 reflections, 3534, 5474), (anti-Aquila, 3534, 11706), (anti-Ara, 3534, 12141), (anti-Artzt, 5858, 12154), (1st anti-Brocard, 36363, 5978), (5th anti-Brocard, 3534, 12204), (6th anti-Brocard, 36363, 12213), (2nd anti-circumperptangential, 3534, 18975), (anti-Euler, 3534, 6773), (anti-inner-Grebe, 3534, 19075), (anti-outer-Grebe, 3534, 19076), (anti-Mandart-incircle, 3534, 12336), (anti-McCay, 35696, 8594), (3rd anti-tri-squares, 36374, 22603), (4th anti-tri-squares, 36372, 22632), (anticomplementary, 3534, 617), (Aquila, 3534, 9900), (Ara, 3534, 9915), (Artzt, 5858, 9760), (1st Auriga, 3534, 12470), (2nd Auriga, 3534, 12471), (Bankoff, 35751, 35748), (1st Brocard-reflected, 36365, 22689), (1st Brocard, 36363, 3642), (5th Brocard, 3534, 9981), (6th Brocard, 36363, 9988), (circumnormal, 0, 13594), (2nd circumperp tangential, 3534, 22774), (circumtangential, 0, 13593), (Ehrmann-mid, 3534, 22797), (Euler, 3534, 5479), (inner-Fermat, 36368, 14), (outer-Fermat, 33622, 617), (1st Fermat-Dao, 36369, 25208), (3rd Fermat-Dao, 35751, 5470), (4th Fermat-Dao, 2, 16268), (5th Fermat-Dao, 36369, 25162), (7th Fermat-Dao, 35751, 115), (8th Fermat-Dao, 2, 395), (9th Fermat-Dao, 36369, 25163), (11th Fermat-Dao, 35751, 25164), (12th Fermat-Dao, 2, 381), (13th Fermat-Dao, 36369, 25165), (15th Fermat-Dao, 35751, 25166), (16th Fermat-Dao, 2, 14), (1st inner-Fermat-Dao-Nhi, 2, 2), (2nd inner-Fermat-Dao-Nhi, 2, 2), (3rd inner-Fermat-Dao-Nhi, 35751, 36329), (4th inner-Fermat-Dao-Nhi, 35751, 36330), (1st outer-Fermat-Dao-Nhi, 35751, 36327), (2nd outer-Fermat-Dao-Nhi, 35751, 36331), (4th outer-Fermat-Dao-Nhi, 2, 2), (outer-Garcia, 3534, 12780), (Gossard, 3534, 12792), (inner-Grebe, 3534, 6271), (outer-Grebe, 3534, 6269), (1st half-diamonds-central, 35751, 5460), (2nd half-diamonds-central, 2, 2), (1st half-diamonds, 36368, 619), (2nd half-diamonds, 33622, 14), (1st half-squares, 36372, 33442), (2nd half-squares, 36374, 33443), (1st isodynamic-Dao, 35751, 22997), (2nd isodynamic-Dao, 2, 14), (3rd isodynamic-Dao, 35751, 31709), (4th isodynamic-Dao, 2, 14), (Johnson, 3534, 5613), (inner-Johnson, 3534, 12921), (outer-Johnson, 3534, 12931), (1st Johnson-Yff, 3534, 12941), (2nd Johnson-Yff, 3534, 12951), (1st Kenmotu-free-vertices, 3534, 35850), (2nd Kenmotu-free-vertices, 3534, 35851), (1st Lemoine-Dao, 35751, 14), (2nd Lemoine-Dao, 2, 10653), (outer-Le Viet An, 36369, 14177), (Lucas homothetic, 3534, 12988), (Lucas(-1) homothetic, 3534, 12989), (Mandart-incircle, 3534, 13075), (McCay, 35696, 13083), (medial, 3534, 619), (5th mixtilinear, 3534, 7974), (1st Morley-midpoint, 0, 0), (2nd Morley-midpoint, 0, 0), (3rd Morley-midpoint, 0, 0), (1st Morley, 0, 0), (2nd Morley, 0, 0), (3rd Morley, 0, 0), (Moses-Steiner osculatory, 35696, 34508), (inner-Napoleon, 2, 2), (outer-Napoleon, 35751, 5464), (1st Neuberg, 36378, 6295), (2nd Neuberg, 36379, 6299), (Roussel, 0, 0), (Stammler, 0, 8009), (1st tri-squares-central, 36380, 13703), (2nd tri-squares-central, 36381, 13823), (3rd tri-squares-central, 3534, 13916), (4th tri-squares-central, 3534, 13981), (1st tri-squares, 5858, 13645), (2nd tri-squares, 5858, 13764), (3rd tri-squares, 36372, 13875), (4th tri-squares, 36374, 13928), (inner-Vecten, 36374, 6303), (outer-Vecten, 36372, 6307), (X3-ABC reflections, 3534, 13102), (inner-Yff, 3534, 10061), (outer-Yff, 3534, 10077), (inner-Yff tangents, 3534, 13104), (outer-Yff tangents, 3534, 13106)

Parallelogic triangles and parallelogic centers:

(Bankoff, 35752, 35759), (circumnormal, 36402, 13593), (circumtangential, 36402, 13594), (1st Fermat-Dao, 36389, 25213), (3rd Fermat-Dao, 35752, 16529), (5th Fermat-Dao, 36389, 25230), (7th Fermat-Dao, 35752, 9117), (9th Fermat-Dao, 36389, 25232), (11th Fermat-Dao, 35752, 5613), (13th Fermat-Dao, 36389, 25234), (15th Fermat-Dao, 35752, 25236), (3rd inner-Fermat-Dao-Nhi, 35752, 36330), (4th inner-Fermat-Dao-Nhi, 35752, 36329), (1st outer-Fermat-Dao-Nhi, 35752, 36331), (2nd outer-Fermat-Dao-Nhi, 35752, 36327), (1st half-diamonds-central, 35752, 619), (1st isodynamic-Dao, 35752, 23004), (3rd isodynamic-Dao, 35752, 6783), (1st Lemoine-Dao, 35752, 23013), (outer-Le Viet An, 36389, 14185), (1st Morley-midpoint, 36402, 0), (2nd Morley-midpoint, 36402, 0), (3rd Morley-midpoint, 36402, 0), (1st Morley, 36402, 0), (2nd Morley, 36402, 0), (3rd Morley, 36402, 0), (outer-Napoleon, 35752, 14), (1st Parry, 3534, 13304), (2nd Parry, 3534, 9201), (Roussel, 36402, 0), (Stammler, 36402, 8008)

Note: Centers 0 mean not calculated yet

4th inner-Fermat-Dao-Nhi equilateral triangle

Orthologic triangles and orthologic centers:

(ABC, 3830, 13), (ABC-X3 reflections, 3830, 5473), (anti-Aquila, 3830, 11705), (anti-Ara, 3830, 12142), (anti-Artzt, 5858, 12155), (1st anti-Brocard, 36382, 5979), (5th anti-Brocard, 3830, 12205), (6th anti-Brocard, 36382, 12214), (2nd anti-circumperptangential, 3830, 18974), (anti-Euler, 3830, 6770), (anti-inner-Grebe, 3830, 19073), (anti-outer-Grebe, 3830, 19074), (anti-Mandart-incircle, 3830, 12337), (anti-McCay, 35693, 8595), (3rd anti-tri-squares, 36391, 22601), (4th anti-tri-squares, 36390, 22630), (anticomplementary, 3830, 616), (Aquila, 3830, 9901), (Ara, 3830, 9916), (Artzt, 5858, 9762), (1st Auriga, 3830, 12472), (2nd Auriga, 3830, 12473), (Bankoff, 2, 34551), (1st Brocard-reflected, 36384, 22687), (1st Brocard, 36382, 3643), (5th Brocard, 3830, 9982), (6th Brocard, 36382, 9989), (2nd circumperp tangential, 3830, 22773), (Ehrmann-mid, 3830, 22796), (Euler, 3830, 5478), (inner-Fermat, 33627, 616), (outer-Fermat, 36386, 13), (2nd Fermat-Dao, 36387, 25207), (3rd Fermat-Dao, 2, 16267), (4th Fermat-Dao, 36330, 5469), (6th Fermat-Dao, 36387, 25152), (7th Fermat-Dao, 2, 396), (8th Fermat-Dao, 36330, 115), (10th Fermat-Dao, 36387, 25153), (11th Fermat-Dao, 2, 381), (12th Fermat-Dao, 36330, 25154), (14th Fermat-Dao, 36387, 25155), (15th Fermat-Dao, 2, 13), (16th Fermat-Dao, 36330, 25156), (1st inner-Fermat-Dao-Nhi, 36330, 35749), (2nd inner-Fermat-Dao-Nhi, 36330, 35750), (3rd inner-Fermat-Dao-Nhi, 2, 2), (1st outer-Fermat-Dao-Nhi, 2, 2), (2nd outer-Fermat-Dao-Nhi, 2, 2), (3rd outer-Fermat-Dao-Nhi, 36330, 35751), (4th outer-Fermat-Dao-Nhi, 36330, 35752), (outer-Garcia, 3830, 12781), (Gossard, 3830, 12793), (inner-Grebe, 3830, 6270), (outer-Grebe, 3830, 6268), (1st half-diamonds-central, 2, 2), (2nd half-diamonds-central, 36330, 5459), (1st half-diamonds, 33627, 13), (2nd half-diamonds, 36386, 618), (1st half-squares, 36390, 33440), (2nd half-squares, 36391, 33441), (1st isodynamic-Dao, 2, 13), (2nd isodynamic-Dao, 36330, 22998), (3rd isodynamic-Dao, 2, 13), (4th isodynamic-Dao, 36330, 31710), (Johnson, 3830, 5617), (inner-Johnson, 3830, 12922), (outer-Johnson, 3830, 12932), (1st Johnson-Yff, 3830, 12942), (2nd Johnson-Yff, 3830, 12952), (1st Kenmotu-free-vertices, 3830, 35753), (2nd Kenmotu-free-vertices, 3830, 35754), (1st Lemoine-Dao, 2, 10654), (2nd Lemoine-Dao, 36330, 13), (inner-Le Viet An, 36387, 14181), (Lucas homothetic, 3830, 12990), (Lucas(-1) homothetic, 3830, 12991), (Mandart-incircle, 3830, 13076), (McCay, 35693, 13084), (medial, 3830, 618), (5th mixtilinear, 3830, 7975), (Moses-Steiner osculatory, 35693, 34509), (inner-Napoleon, 36330, 5463), (outer-Napoleon, 2, 2), (1st Neuberg, 36393, 6582), (2nd Neuberg, 36395, 6298), (1st tri-squares-central, 36396, 13705), (2nd tri-squares-central, 36397, 13825), (3rd tri-squares-central, 3830, 13917), (4th tri-squares-central, 3830, 13982), (1st tri-squares, 5858, 13646), (2nd tri-squares, 5858, 13765), (3rd tri-squares, 36390, 13876), (4th tri-squares, 36391, 13929), (inner-Vecten, 36391, 6302), (outer-Vecten, 36390, 6306), (X3-ABC reflections, 3830, 13103), (inner-Yff, 3830, 10062), (outer-Yff, 3830, 10078), (inner-Yff tangents, 3830, 13105), (outer-Yff tangents, 3830, 13107)

Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 36367, 25216), (4th Fermat-Dao, 36329, 16530), (6th Fermat-Dao, 36367, 25229), (8th Fermat-Dao, 36329, 9115), (10th Fermat-Dao, 36367, 25231), (12th Fermat-Dao, 36329, 5617), (14th Fermat-Dao, 36367, 25233), (16th Fermat-Dao, 36329, 25235), (1st inner-Fermat-Dao-Nhi, 36329, 35750), (2nd inner-Fermat-Dao-Nhi, 36329, 35749), (3rd outer-Fermat-Dao-Nhi, 36329, 35752), (4th outer-Fermat-Dao-Nhi, 36329, 35751), (2nd half-diamonds-central, 36329, 618), (2nd isodynamic-Dao, 36329, 23005), (4th isodynamic-Dao, 36329, 6782), (2nd Lemoine-Dao, 36329, 23006), (inner-Le Viet An, 36367, 14187), (inner-Napoleon, 36329, 13), (1st Parry, 3830, 13305), (2nd Parry, 3830, 9200)

Note: Centers 0 mean not calculated yet

4th outer-Fermat-Dao-Nhi equilateral triangle

Orthologic triangles and orthologic centers:

(ABC, 3830, 14), (ABC-X3 reflections, 3830, 5474), (anti-Aquila, 3830, 11706), (anti-Ara, 3830, 12141), (anti-Artzt, 5859, 12154), (1st anti-Brocard, 36383, 5978), (5th anti-Brocard, 3830, 12204), (6th anti-Brocard, 36383, 12213), (2nd anti-circumperptangential, 3830, 18975), (anti-Euler, 3830, 6773), (anti-inner-Grebe, 3830, 19075), (anti-outer-Grebe, 3830, 19076), (anti-Mandart-incircle, 3830, 12336), (anti-McCay, 35697, 8594), (3rd anti-tri-squares, 36394, 22603), (4th anti-tri-squares, 36392, 22632), (anticomplementary, 3830, 617), (Aquila, 3830, 9900), (Ara, 3830, 9915), (Artzt, 5859, 9760), (1st Auriga, 3830, 12470), (2nd Auriga, 3830, 12471), (Bankoff, 35752, 35748), (1st Brocard-reflected, 36385, 22689), (1st Brocard, 36383, 3642), (5th Brocard, 3830, 9981), (6th Brocard, 36383, 9988), (circumnormal, 36402, 13594), (2nd circumperp tangential, 3830, 22774), (circumtangential, 36402, 13593), (Ehrmann-mid, 3830, 22797), (Euler, 3830, 5479), (inner-Fermat, 36388, 14), (outer-Fermat, 33626, 617), (1st Fermat-Dao, 36389, 25208), (3rd Fermat-Dao, 35752, 5470), (4th Fermat-Dao, 2, 16268), (5th Fermat-Dao, 36389, 25162), (7th Fermat-Dao, 35752, 115), (8th Fermat-Dao, 2, 395), (9th Fermat-Dao, 36389, 25163), (11th Fermat-Dao, 35752, 25164), (12th Fermat-Dao, 2, 381), (13th Fermat-Dao, 36389, 25165), (15th Fermat-Dao, 35752, 25166), (16th Fermat-Dao, 2, 14), (1st inner-Fermat-Dao-Nhi, 2, 2), (2nd inner-Fermat-Dao-Nhi, 2, 2), (3rd inner-Fermat-Dao-Nhi, 35752, 36329), (4th inner-Fermat-Dao-Nhi, 35752, 36330), (1st outer-Fermat-Dao-Nhi, 35752, 36327), (2nd outer-Fermat-Dao-Nhi, 35752, 36331), (3rd outer-Fermat-Dao-Nhi, 2, 2), (outer-Garcia, 3830, 12780), (Gossard, 3830, 12792), (inner-Grebe, 3830, 6271), (outer-Grebe, 3830, 6269), (1st half-diamonds-central, 35752, 5460), (2nd half-diamonds-central, 2, 2), (1st half-diamonds, 36388, 619), (2nd half-diamonds, 33626, 14), (1st half-squares, 36392, 33442), (2nd half-squares, 36394, 33443), (1st isodynamic-Dao, 35752, 22997), (2nd isodynamic-Dao, 2, 14), (3rd isodynamic-Dao, 35752, 31709), (4th isodynamic-Dao, 2, 14), (Johnson, 3830, 5613), (inner-Johnson, 3830, 12921), (outer-Johnson, 3830, 12931), (1st Johnson-Yff, 3830, 12941), (2nd Johnson-Yff, 3830, 12951), (1st Kenmotu-free-vertices, 3830, 35850), (2nd Kenmotu-free-vertices, 3830, 35851), (1st Lemoine-Dao, 35752, 14), (2nd Lemoine-Dao, 2, 10653), (outer-Le Viet An, 36389, 14177), (Lucas homothetic, 3830, 12988), (Lucas(-1) homothetic, 3830, 12989), (Mandart-incircle, 3830, 13075), (McCay, 35697, 13083), (medial, 3830, 619), (5th mixtilinear, 3830, 7974), (1st Morley-midpoint, 36402, 0), (2nd Morley-midpoint, 36402, 0), (3rd Morley-midpoint, 36402, 0), (1st Morley, 36402, 0), (2nd Morley, 36402, 0), (3rd Morley, 36402, 0), (Moses-Steiner osculatory, 35697, 34508), (inner-Napoleon, 2, 2), (outer-Napoleon, 35752, 5464), (1st Neuberg, 36398, 6295), (2nd Neuberg, 36399, 6299), (Roussel, 36402, 0), (Stammler, 36402, 8009), (1st tri-squares-central, 36400, 13703), (2nd tri-squares-central, 36401, 13823), (3rd tri-squares-central, 3830, 13916), (4th tri-squares-central, 3830, 13981), (1st tri-squares, 5859, 13645), (2nd tri-squares, 5859, 13764), (3rd tri-squares, 36392, 13875), (4th tri-squares, 36394, 13928), (inner-Vecten, 36394, 6303), (outer-Vecten, 36392, 6307), (X3-ABC reflections, 3830, 13102), (inner-Yff, 3830, 10061), (outer-Yff, 3830, 10077), (inner-Yff tangents, 3830, 13104), (outer-Yff tangents, 3830, 13106)

Parallelogic triangles and parallelogic centers:

(Bankoff, 35751, 35759), (circumnormal, 0, 13593), (circumtangential, 0, 13594), (1st Fermat-Dao, 36369, 25213), (3rd Fermat-Dao, 35751, 16529), (5th Fermat-Dao, 36369, 25230), (7th Fermat-Dao, 35751, 9117), (9th Fermat-Dao, 36369, 25232), (11th Fermat-Dao, 35751, 5613), (13th Fermat-Dao, 36369, 25234), (15th Fermat-Dao, 35751, 25236), (3rd inner-Fermat-Dao-Nhi, 35751, 36330), (4th inner-Fermat-Dao-Nhi, 35751, 36329), (1st outer-Fermat-Dao-Nhi, 35751, 36331), (2nd outer-Fermat-Dao-Nhi, 35751, 36327), (1st half-diamonds-central, 35751, 619), (1st isodynamic-Dao, 35751, 23004), (3rd isodynamic-Dao, 35751, 6783), (1st Lemoine-Dao, 35751, 23013), (outer-Le Viet An, 36369, 14185), (1st Morley-midpoint, 0, 0), (2nd Morley-midpoint, 0, 0), (3rd Morley-midpoint, 0, 0), (1st Morley, 0, 0), (2nd Morley, 0, 0), (3rd Morley, 0, 0), (outer-Napoleon, 35751, 14), (1st Parry, 3830, 13304), (2nd Parry, 3830, 9201), (Roussel, 0, 0), (Stammler, 0, 8008)

Note: Centers 0 mean not calculated yet