ORTHOLOGIC TRIANGLES TO FERMAT-DAO TRIANGLES

Note: 0 means not yet calculated centers

1st FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(1st Ehrmann, 22824, 14174), (2nd Fermat-Dao, 25209, 25210), (4th Fermat-Dao, 25208, 25161), (5th Fermat-Dao, 16259, 16461), (6th Fermat-Dao, 25209, 25172), (8th Fermat-Dao, 25208, 25173), (9th Fermat-Dao, 16259, 11624), (10th Fermat-Dao, 25209, 25174), (12th Fermat-Dao, 25208, 25175), (13th Fermat-Dao, 16259, 5640), (14th Fermat-Dao, 25209, 25176), (16th Fermat-Dao, 25208, 25177), (2nd isodynamic-Dao, 25208, 23008), (2nd Lemoine-Dao, 25208, 23023), (inner-Le Viet An, 25209, 14176), (outer-Le Viet An, 16259, 14170), (inner-Napoleon, 25208, 14178)

2nd FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(circumnormal, 0, 0), (circumtangential, 0, 0), (1st Ehrmann, 22825, 14180), (1st Fermat-Dao, 25210, 25209), (3rd Fermat-Dao, 25207, 25151), (5th Fermat-Dao, 25210, 25171), (6th Fermat-Dao, 16260, 16462), (7th Fermat-Dao, 25207, 25178), (9th Fermat-Dao, 25210, 25179), (10th Fermat-Dao, 16260, 11626), (11th Fermat-Dao, 25207, 25180), (13th Fermat-Dao, 25210, 25181), (14th Fermat-Dao, 16260, 5640), (15th Fermat-Dao, 25207, 25182), (1st isodynamic-Dao, 25207, 22999), (1st Lemoine-Dao, 25207, 23017), (inner-Le Viet An, 16260, 14169), (outer-Le Viet An, 25210, 14175), (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, 25207, 14182), (Roussel, 0, 0), (Stammler, 0, 0)

3rd FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(ABC, 13, 13), (ABC-X3 reflections, 13, 5473), (anti-Aquila, 13, 11705), (anti-Ara, 13, 12142), (anti-Artzt, 22489, 12155), (1st anti-Brocard, 22510, 5979), (5th anti-Brocard, 13, 12205), (6th anti-Brocard, 22510, 12214), (2nd anti-circumperp-tangential, 13, 18974), (anti-Euler, 13, 6770), (anti-inner-Grebe, 13, 19073), (anti-outer-Grebe, 13, 19074), (anti-Mandart-incircle, 13, 12337), (anti-McCay, 22571, 8595), (3rd anti-tri-squares, 22602, 22601), (4th anti-tri-squares, 22631, 22630), (anticomplementary, 13, 616), (Aquila, 13, 9901), (Ara, 13, 9916), (Artzt, 22489, 9762), (1st Auriga, 13, 12472), (2nd Auriga, 13, 12473), (1st Brocard-reflected, 22688, 22687), (1st Brocard, 22510, 3643), (5th Brocard, 13, 9982), (6th Brocard, 22510, 9989), (2nd circumperp tangential, 13, 22773), (Ehrmann-mid, 13, 22796), (Euler, 13, 5478), (inner-Fermat, 22846, 616), (outer-Fermat, 17, 13), (2nd Fermat-Dao, 25151, 25207), (4th Fermat-Dao, 5470, 5469), (6th Fermat-Dao, 25151, 25152), (7th Fermat-Dao, 16267, 396), (8th Fermat-Dao, 5470, 115), (10th Fermat-Dao, 25151, 25153), (11th Fermat-Dao, 16267, 381), (12th Fermat-Dao, 5470, 25154), (14th Fermat-Dao, 25151, 25155), (15th Fermat-Dao, 16267, 13), (16th Fermat-Dao, 5470, 25156), (outer-Garcia, 13, 12781), (Gossard, 13, 12793), (inner-Grebe, 13, 6270), (outer-Grebe, 13, 6268), (1st isodynamic-Dao, 16267, 13), (2nd isodynamic-Dao, 5470, 22998), (Johnson, 13, 5617), (inner-Johnson, 13, 12922), (outer-Johnson, 13, 12932), (1st Johnson-Yff, 13, 12942), (2nd Johnson-Yff, 13, 12952), (1st Lemoine-Dao, 16267, 10654), (2nd Lemoine-Dao, 5470, 13), (inner-Le Viet An, 25151, 14181), (Lucas homothetic, 13, 12990), (Lucas(-1) homothetic, 13, 12991), (Mandart-incircle, 13, 13076), (McCay, 22571, 13084), (medial, 13, 618), (5th mixtilinear, 13, 7975), (inner-Napoleon, 5470, 5463), (outer-Napoleon, 16267, 2), (1st Neuberg, 25157, 6582), (2nd Neuberg, 25158, 6298), (1st tri-squares-central, 25159, 13705), (2nd tri-squares-central, 25160, 13825), (3rd tri-squares-central, 13, 13917), (4th tri-squares-central, 13, 13982), (1st tri-squares, 22489, 13646), (2nd tri-squares, 22489, 13765), (3rd tri-squares, 22631, 13876), (4th tri-squares, 22602, 13929), (inner-Vecten, 22602, 6302), (outer-Vecten, 22631, 6306), (X3-ABC reflections, 13, 13103), (inner-Yff, 13, 10062), (outer-Yff, 13, 10078), (inner-Yff tangents, 13, 13105), (outer-Yff tangents, 13, 13107)

4th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(ABC, 14, 14), (ABC-X3 reflections, 14, 5474), (anti-Aquila, 14, 11706), (anti-Ara, 14, 12141), (anti-Artzt, 22490, 12154), (1st anti-Brocard, 22511, 5978), (5th anti-Brocard, 14, 12204), (6th anti-Brocard, 22511, 12213), (2nd anti-circumperp-tangential, 14, 18975), (anti-Euler, 14, 0), (anti-inner-Grebe, 14, 19075), (anti-outer-Grebe, 14, 19076), (anti-Mandart-incircle, 14, 12336), (anti-McCay, 22572, 8594), (3rd anti-tri-squares, 22604, 22603), (4th anti-tri-squares, 22633, 22632), (anticomplementary, 14, 617), (Aquila, 14, 9900), (Ara, 14, 9915), (Artzt, 22490, 9760), (1st Auriga, 14, 12470), (2nd Auriga, 14, 12471), (1st Brocard-reflected, 22690, 22689), (1st Brocard, 22511, 3642), (5th Brocard, 14, 9981), (6th Brocard, 22511, 9988), (circumnormal, 0, 13594), (2nd circumperp tangential, 14, 22774), (circumtangential, 0, 13593), (Ehrmann-mid, 14, 22797), (Euler, 14, 5479), (inner-Fermat, 18, 14), (outer-Fermat, 22891, 617), (1st Fermat-Dao, 25161, 25208), (3rd Fermat-Dao, 5469, 5470), (5th Fermat-Dao, 25161, 25162), (7th Fermat-Dao, 5469, 115), (8th Fermat-Dao, 16268, 395), (9th Fermat-Dao, 25161, 25163), (11th Fermat-Dao, 5469, 25164), (12th Fermat-Dao, 16268, 381), (13th Fermat-Dao, 25161, 25165), (15th Fermat-Dao, 5469, 25166), (16th Fermat-Dao, 16268, 14), (outer-Garcia, 14, 12780), (Gossard, 14, 12792), (inner-Grebe, 14, 6271), (outer-Grebe, 14, 6269), (1st isodynamic-Dao, 5469, 22997), (2nd isodynamic-Dao, 16268, 14), (Johnson, 14, 5613), (inner-Johnson, 14, 12921), (outer-Johnson, 14, 12931), (1st Johnson-Yff, 14, 12941), (2nd Johnson-Yff, 14, 12951), (1st Lemoine-Dao, 5469, 14), (2nd Lemoine-Dao, 16268, 10653), (outer-Le Viet An, 25161, 14177), (Lucas homothetic, 14, 12988), (Lucas(-1) homothetic, 14, 12989), (Mandart-incircle, 14, 13075), (McCay, 22572, 13083), (medial, 14, 619), (5th mixtilinear, 14, 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), (inner-Napoleon, 16268, 2), (outer-Napoleon, 5469, 5464), (1st Neuberg, 25167, 6295), (2nd Neuberg, 25168, 6299), (Roussel, 0, 0), (Stammler, 0, 8009), (1st tri-squares-central, 25169, 13703), (2nd tri-squares-central, 25170, 13823), (3rd tri-squares-central, 14, 13916), (4th tri-squares-central, 14, 13981), (1st tri-squares, 22490, 13645), (2nd tri-squares, 22490, 13764), (3rd tri-squares, 22633, 13875), (4th tri-squares, 22604, 13928), (inner-Vecten, 22604, 6303), (outer-Vecten, 22633, 6307), (X3-ABC reflections, 14, 13102), (inner-Yff, 14, 10061), (outer-Yff, 14, 10077), (inner-Yff tangents, 14, 13104), (outer-Yff tangents, 14, 13106)

5th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(1st Ehrmann, 22826, 14174), (1st Fermat-Dao, 16461, 16259), (2nd Fermat-Dao, 25171, 25210), (4th Fermat-Dao, 25162, 25161), (6th Fermat-Dao, 25171, 25172), (8th Fermat-Dao, 25162, 25173), (9th Fermat-Dao, 16461, 11624), (10th Fermat-Dao, 25171, 25174), (12th Fermat-Dao, 25162, 25175), (13th Fermat-Dao, 16461, 5640), (14th Fermat-Dao, 25171, 25176), (16th Fermat-Dao, 25162, 25177), (2nd isodynamic-Dao, 25162, 23008), (2nd Lemoine-Dao, 25162, 23023), (inner-Le Viet An, 25171, 14176), (outer-Le Viet An, 16461, 14170), (inner-Napoleon, 25162, 14178)

6th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(circumnormal, 0, 0), (circumtangential, 0, 0), (1st Ehrmann, 22827, 14180), (1st Fermat-Dao, 25172, 25209), (2nd Fermat-Dao, 16462, 16260), (3rd Fermat-Dao, 25152, 25151), (5th Fermat-Dao, 25172, 25171), (7th Fermat-Dao, 25152, 25178), (9th Fermat-Dao, 25172, 25179), (10th Fermat-Dao, 16462, 11626), (11th Fermat-Dao, 25152, 25180), (13th Fermat-Dao, 25172, 25181), (14th Fermat-Dao, 16462, 5640), (15th Fermat-Dao, 25152, 25182), (1st isodynamic-Dao, 25152, 22999), (1st Lemoine-Dao, 25152, 23017), (inner-Le Viet An, 16462, 14169), (outer-Le Viet An, 25172, 14175), (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, 25152, 14182), (Roussel, 0, 0), (Stammler, 0, 0)

7th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(ABC, 13, 13), (ABC-X3 reflections, 13, 5473), (anti-Aquila, 13, 11705), (anti-Ara, 13, 12142), (anti-Artzt, 2, 12155), (1st anti-Brocard, 6109, 5979), (5th anti-Brocard, 13, 12205), (6th anti-Brocard, 6109, 12214), (2nd anti-circumperp-tangential, 13, 18974), (anti-Euler, 13, 6770), (anti-inner-Grebe, 13, 19073), (anti-outer-Grebe, 13, 19074), (anti-Mandart-incircle, 13, 12337), (anti-McCay, 22573, 8595), (3rd anti-tri-squares, 13929, 22601), (4th anti-tri-squares, 13876, 22630), (anticomplementary, 13, 616), (Aquila, 13, 9901), (Ara, 13, 9916), (Artzt, 2, 9762), (1st Auriga, 13, 12472), (2nd Auriga, 13, 12473), (1st Brocard-reflected, 22691, 22687), (1st Brocard, 6109, 3643), (5th Brocard, 13, 9982), (6th Brocard, 6109, 9989), (2nd circumperp tangential, 13, 22773), (Ehrmann-mid, 13, 22796), (Euler, 13, 5478), (inner-Fermat, 22847, 616), (outer-Fermat, 22892, 13), (2nd Fermat-Dao, 25178, 25207), (3rd Fermat-Dao, 396, 16267), (4th Fermat-Dao, 115, 5469), (6th Fermat-Dao, 25178, 25152), (8th Fermat-Dao, 115, 115), (10th Fermat-Dao, 25178, 25153), (11th Fermat-Dao, 396, 381), (12th Fermat-Dao, 115, 25154), (14th Fermat-Dao, 25178, 25155), (15th Fermat-Dao, 396, 13), (16th Fermat-Dao, 115, 25156), (outer-Garcia, 13, 12781), (Gossard, 13, 12793), (inner-Grebe, 13, 6270), (outer-Grebe, 13, 6268), (1st isodynamic-Dao, 396, 13), (2nd isodynamic-Dao, 115, 22998), (Johnson, 13, 5617), (inner-Johnson, 13, 12922), (outer-Johnson, 13, 12932), (1st Johnson-Yff, 13, 12942), (2nd Johnson-Yff, 13, 12952), (1st Lemoine-Dao, 396, 10654), (2nd Lemoine-Dao, 115, 13), (inner-Le Viet An, 25178, 14181), (Lucas homothetic, 13, 12990), (Lucas(-1) homothetic, 13, 12991), (Mandart-incircle, 13, 13076), (McCay, 22573, 13084), (medial, 13, 618), (5th mixtilinear, 13, 7975), (inner-Napoleon, 115, 5463), (outer-Napoleon, 396, 2), (1st Neuberg, 25183, 6582), (2nd Neuberg, 25184, 6298), (1st tri-squares-central, 25185, 13705), (2nd tri-squares-central, 25186, 13825), (3rd tri-squares-central, 13, 13917), (4th tri-squares-central, 13, 13982), (1st tri-squares, 2, 13646), (2nd tri-squares, 2, 13765), (3rd tri-squares, 13876, 13876), (4th tri-squares, 13929, 13929), (inner-Vecten, 13929, 6302), (outer-Vecten, 13876, 6306), (X3-ABC reflections, 13, 13103), (inner-Yff, 13, 10062), (outer-Yff, 13, 10078), (inner-Yff tangents, 13, 13105), (outer-Yff tangents, 13, 13107)

8th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(ABC, 14, 14), (ABC-X3 reflections, 14, 5474), (anti-Aquila, 14, 11706), (anti-Ara, 14, 12141), (anti-Artzt, 2, 12154), (1st anti-Brocard, 6108, 5978), (5th anti-Brocard, 14, 12204), (6th anti-Brocard, 6108, 12213), (2nd anti-circumperp-tangential, 14, 18975), (anti-Euler, 14, 0), (anti-inner-Grebe, 14, 19075), (anti-outer-Grebe, 14, 19076), (anti-Mandart-incircle, 14, 12336), (anti-McCay, 22574, 8594), (3rd anti-tri-squares, 13928, 22603), (4th anti-tri-squares, 13875, 22632), (anticomplementary, 14, 617), (Aquila, 14, 9900), (Ara, 14, 9915), (Artzt, 2, 9760), (1st Auriga, 14, 12470), (2nd Auriga, 14, 12471), (1st Brocard-reflected, 22692, 22689), (1st Brocard, 6108, 3642), (5th Brocard, 14, 9981), (6th Brocard, 6108, 9988), (circumnormal, 0, 13594), (2nd circumperp tangential, 14, 22774), (circumtangential, 0, 13593), (Ehrmann-mid, 14, 22797), (Euler, 14, 5479), (inner-Fermat, 22848, 14), (outer-Fermat, 22893, 617), (1st Fermat-Dao, 25173, 25208), (3rd Fermat-Dao, 115, 5470), (4th Fermat-Dao, 395, 16268), (5th Fermat-Dao, 25173, 25162), (7th Fermat-Dao, 115, 115), (9th Fermat-Dao, 25173, 25163), (11th Fermat-Dao, 115, 25164), (12th Fermat-Dao, 395, 381), (13th Fermat-Dao, 25173, 25165), (15th Fermat-Dao, 115, 25166), (16th Fermat-Dao, 395, 14), (outer-Garcia, 14, 12780), (Gossard, 14, 12792), (inner-Grebe, 14, 6271), (outer-Grebe, 14, 6269), (1st isodynamic-Dao, 115, 22997), (2nd isodynamic-Dao, 395, 14), (Johnson, 14, 5613), (inner-Johnson, 14, 12921), (outer-Johnson, 14, 12931), (1st Johnson-Yff, 14, 12941), (2nd Johnson-Yff, 14, 12951), (1st Lemoine-Dao, 115, 14), (2nd Lemoine-Dao, 395, 10653), (outer-Le Viet An, 25173, 14177), (Lucas homothetic, 14, 12988), (Lucas(-1) homothetic, 14, 12989), (Mandart-incircle, 14, 13075), (McCay, 22574, 13083), (medial, 14, 619), (5th mixtilinear, 14, 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), (inner-Napoleon, 395, 2), (outer-Napoleon, 115, 5464), (1st Neuberg, 25187, 6295), (2nd Neuberg, 25188, 6299), (Roussel, 0, 0), (Stammler, 0, 8009), (1st tri-squares-central, 25189, 13703), (2nd tri-squares-central, 25190, 13823), (3rd tri-squares-central, 14, 13916), (4th tri-squares-central, 14, 13981), (1st tri-squares, 2, 13645), (2nd tri-squares, 2, 13764), (3rd tri-squares, 13875, 13875), (4th tri-squares, 13928, 13928), (inner-Vecten, 13928, 6303), (outer-Vecten, 13875, 6307), (X3-ABC reflections, 14, 13102), (inner-Yff, 14, 10061), (outer-Yff, 14, 10077), (inner-Yff tangents, 14, 13104), (outer-Yff tangents, 14, 13106)

9th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(1st Ehrmann, 6, 14174), (1st Fermat-Dao, 11624, 16259), (2nd Fermat-Dao, 25179, 25210), (4th Fermat-Dao, 25163, 25161), (5th Fermat-Dao, 11624, 16461), (6th Fermat-Dao, 25179, 25172), (8th Fermat-Dao, 25163, 25173), (10th Fermat-Dao, 25179, 25174), (12th Fermat-Dao, 25163, 25175), (13th Fermat-Dao, 11624, 5640), (14th Fermat-Dao, 25179, 25176), (16th Fermat-Dao, 25163, 25177), (2nd isodynamic-Dao, 25163, 23008), (2nd Lemoine-Dao, 25163, 23023), (inner-Le Viet An, 25179, 14176), (outer-Le Viet An, 11624, 14170), (inner-Napoleon, 25163, 14178)

10th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(circumnormal, 0, 0), (circumtangential, 0, 0), (1st Ehrmann, 6, 14180), (1st Fermat-Dao, 25174, 25209), (2nd Fermat-Dao, 11626, 16260), (3rd Fermat-Dao, 25153, 25151), (5th Fermat-Dao, 25174, 25171), (6th Fermat-Dao, 11626, 16462), (7th Fermat-Dao, 25153, 25178), (9th Fermat-Dao, 25174, 25179), (11th Fermat-Dao, 25153, 25180), (13th Fermat-Dao, 25174, 25181), (14th Fermat-Dao, 11626, 5640), (15th Fermat-Dao, 25153, 25182), (1st isodynamic-Dao, 25153, 22999), (1st Lemoine-Dao, 25153, 23017), (inner-Le Viet An, 11626, 14169), (outer-Le Viet An, 25174, 14175), (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, 25153, 14182), (Roussel, 0, 0), (Stammler, 0, 0)

11th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(ABC, 4, 13), (ABC-X3 reflections, 4, 5473), (anti-Aquila, 4, 11705), (anti-Ara, 4, 12142), (anti-Artzt, 22491, 12155), (1st anti-Brocard, 14, 5979), (5th anti-Brocard, 4, 12205), (6th anti-Brocard, 14, 12214), (2nd anti-circumperp-tangential, 4, 18974), (anti-Euler, 4, 6770), (anti-inner-Grebe, 4, 19073), (anti-outer-Grebe, 4, 19074), (anti-Mandart-incircle, 4, 12337), (anti-McCay, 22575, 8595), (3rd anti-tri-squares, 22605, 22601), (4th anti-tri-squares, 22634, 22630), (anticomplementary, 4, 616), (Aquila, 4, 9901), (Ara, 4, 9916), (Artzt, 22491, 9762), (1st Auriga, 4, 12472), (2nd Auriga, 4, 12473), (1st Brocard-reflected, 22693, 22687), (1st Brocard, 14, 3643), (5th Brocard, 4, 9982), (6th Brocard, 14, 9989), (2nd circumperp tangential, 4, 22773), (Ehrmann-mid, 4, 22796), (Euler, 4, 5478), (inner-Fermat, 16628, 616), (outer-Fermat, 16626, 13), (2nd Fermat-Dao, 25180, 25207), (3rd Fermat-Dao, 381, 16267), (4th Fermat-Dao, 25164, 5469), (6th Fermat-Dao, 25180, 25152), (7th Fermat-Dao, 381, 396), (8th Fermat-Dao, 25164, 115), (10th Fermat-Dao, 25180, 25153), (12th Fermat-Dao, 25164, 25154), (14th Fermat-Dao, 25180, 25155), (15th Fermat-Dao, 381, 13), (16th Fermat-Dao, 25164, 25156), (outer-Garcia, 4, 12781), (Gossard, 4, 12793), (inner-Grebe, 4, 6270), (outer-Grebe, 4, 6268), (1st isodynamic-Dao, 381, 13), (2nd isodynamic-Dao, 25164, 22998), (Johnson, 4, 5617), (inner-Johnson, 4, 12922), (outer-Johnson, 4, 12932), (1st Johnson-Yff, 4, 12942), (2nd Johnson-Yff, 4, 12952), (1st Lemoine-Dao, 381, 10654), (2nd Lemoine-Dao, 25164, 13), (inner-Le Viet An, 25180, 14181), (Lucas homothetic, 4, 12990), (Lucas(-1) homothetic, 4, 12991), (Mandart-incircle, 4, 13076), (McCay, 22575, 13084), (medial, 4, 618), (5th mixtilinear, 4, 7975), (inner-Napoleon, 25164, 5463), (outer-Napoleon, 381, 2), (1st Neuberg, 25191, 6582), (2nd Neuberg, 25192, 6298), (1st tri-squares-central, 25193, 13705), (2nd tri-squares-central, 25194, 13825), (3rd tri-squares-central, 4, 13917), (4th tri-squares-central, 4, 13982), (1st tri-squares, 22491, 13646), (2nd tri-squares, 22491, 13765), (3rd tri-squares, 22634, 13876), (4th tri-squares, 22605, 13929), (inner-Vecten, 22605, 6302), (outer-Vecten, 22634, 6306), (X3-ABC reflections, 4, 13103), (inner-Yff, 4, 10062), (outer-Yff, 4, 10078), (inner-Yff tangents, 4, 13105), (outer-Yff tangents, 4, 13107)

12th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(ABC, 4, 14), (ABC-X3 reflections, 4, 5474), (anti-Aquila, 4, 11706), (anti-Ara, 4, 12141), (anti-Artzt, 22492, 12154), (1st anti-Brocard, 13, 5978), (5th anti-Brocard, 4, 12204), (6th anti-Brocard, 13, 12213), (2nd anti-circumperp-tangential, 4, 18975), (anti-Euler, 4, 0), (anti-inner-Grebe, 4, 19075), (anti-outer-Grebe, 4, 19076), (anti-Mandart-incircle, 4, 12336), (anti-McCay, 22576, 8594), (3rd anti-tri-squares, 22606, 22603), (4th anti-tri-squares, 22635, 22632), (anticomplementary, 4, 617), (Aquila, 4, 9900), (Ara, 4, 9915), (Artzt, 22492, 9760), (1st Auriga, 4, 12470), (2nd Auriga, 4, 12471), (1st Brocard-reflected, 22694, 22689), (1st Brocard, 13, 3642), (5th Brocard, 4, 9981), (6th Brocard, 13, 9988), (circumnormal, 0, 13594), (2nd circumperp tangential, 4, 22774), (circumtangential, 0, 13593), (Ehrmann-mid, 4, 22797), (Euler, 4, 5479), (inner-Fermat, 16627, 14), (outer-Fermat, 16629, 617), (1st Fermat-Dao, 25175, 25208), (3rd Fermat-Dao, 25154, 5470), (4th Fermat-Dao, 381, 16268), (5th Fermat-Dao, 25175, 25162), (7th Fermat-Dao, 25154, 115), (8th Fermat-Dao, 381, 395), (9th Fermat-Dao, 25175, 25163), (11th Fermat-Dao, 25154, 25164), (13th Fermat-Dao, 25175, 25165), (15th Fermat-Dao, 25154, 25166), (16th Fermat-Dao, 381, 14), (outer-Garcia, 4, 12780), (Gossard, 4, 12792), (inner-Grebe, 4, 6271), (outer-Grebe, 4, 6269), (1st isodynamic-Dao, 25154, 22997), (2nd isodynamic-Dao, 381, 14), (Johnson, 4, 5613), (inner-Johnson, 4, 12921), (outer-Johnson, 4, 12931), (1st Johnson-Yff, 4, 12941), (2nd Johnson-Yff, 4, 12951), (1st Lemoine-Dao, 25154, 14), (2nd Lemoine-Dao, 381, 10653), (outer-Le Viet An, 25175, 14177), (Lucas homothetic, 4, 12988), (Lucas(-1) homothetic, 4, 12989), (Mandart-incircle, 4, 13075), (McCay, 22576, 13083), (medial, 4, 619), (5th mixtilinear, 4, 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), (inner-Napoleon, 381, 2), (outer-Napoleon, 25154, 5464), (1st Neuberg, 25195, 6295), (2nd Neuberg, 25196, 6299), (Roussel, 0, 0), (Stammler, 0, 8009), (1st tri-squares-central, 25197, 13703), (2nd tri-squares-central, 25198, 13823), (3rd tri-squares-central, 4, 13916), (4th tri-squares-central, 4, 13981), (1st tri-squares, 22492, 13645), (2nd tri-squares, 22492, 13764), (3rd tri-squares, 22635, 13875), (4th tri-squares, 22606, 13928), (inner-Vecten, 22606, 6303), (outer-Vecten, 22635, 6307), (X3-ABC reflections, 4, 13102), (inner-Yff, 4, 10061), (outer-Yff, 4, 10077), (inner-Yff tangents, 4, 13104), (outer-Yff tangents, 4, 13106)

13th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(1st Ehrmann, 6, 14174), (1st Fermat-Dao, 5640, 16259), (2nd Fermat-Dao, 25181, 25210), (4th Fermat-Dao, 25165, 25161), (5th Fermat-Dao, 5640, 16461), (6th Fermat-Dao, 25181, 25172), (8th Fermat-Dao, 25165, 25173), (9th Fermat-Dao, 5640, 11624), (10th Fermat-Dao, 25181, 25174), (12th Fermat-Dao, 25165, 25175), (14th Fermat-Dao, 25181, 25176), (16th Fermat-Dao, 25165, 25177), (2nd isodynamic-Dao, 25165, 23008), (2nd Lemoine-Dao, 25165, 23023), (inner-Le Viet An, 25181, 14176), (outer-Le Viet An, 5640, 14170), (inner-Napoleon, 25165, 14178)

14th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(circumnormal, 0, 0), (circumtangential, 0, 0), (1st Ehrmann, 6, 14180), (1st Fermat-Dao, 25176, 25209), (2nd Fermat-Dao, 5640, 16260), (3rd Fermat-Dao, 25155, 25151), (5th Fermat-Dao, 25176, 25171), (6th Fermat-Dao, 5640, 16462), (7th Fermat-Dao, 25155, 25178), (9th Fermat-Dao, 25176, 25179), (10th Fermat-Dao, 5640, 11626), (11th Fermat-Dao, 25155, 25180), (13th Fermat-Dao, 25176, 25181), (15th Fermat-Dao, 25155, 25182), (1st isodynamic-Dao, 25155, 22999), (1st Lemoine-Dao, 25155, 23017), (inner-Le Viet An, 5640, 14169), (outer-Le Viet An, 25176, 14175), (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, 25155, 14182), (Roussel, 0, 0), (Stammler, 0, 0)

15th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(ABC, 19106, 13), (ABC-X3 reflections, 19106, 5473), (anti-Aquila, 19106, 11705), (anti-Ara, 19106, 12142), (anti-Artzt, 22493, 12155), (1st anti-Brocard, 6777, 5979), (5th anti-Brocard, 19106, 12205), (6th anti-Brocard, 6777, 12214), (2nd anti-circumperp-tangential, 19106, 18974), (anti-Euler, 19106, 6770), (anti-inner-Grebe, 19106, 19073), (anti-outer-Grebe, 19106, 19074), (anti-Mandart-incircle, 19106, 12337), (anti-McCay, 22577, 8595), (3rd anti-tri-squares, 22607, 22601), (4th anti-tri-squares, 22636, 22630), (anticomplementary, 19106, 616), (Aquila, 19106, 9901), (Ara, 19106, 9916), (Artzt, 22493, 9762), (1st Auriga, 19106, 12472), (2nd Auriga, 19106, 12473), (1st Brocard-reflected, 22695, 22687), (1st Brocard, 6777, 3643), (5th Brocard, 19106, 9982), (6th Brocard, 6777, 9989), (2nd circumperp tangential, 19106, 22773), (Ehrmann-mid, 19106, 22796), (Euler, 19106, 5478), (inner-Fermat, 22849, 616), (outer-Fermat, 22894, 13), (2nd Fermat-Dao, 25182, 25207), (3rd Fermat-Dao, 13, 16267), (4th Fermat-Dao, 25166, 5469), (6th Fermat-Dao, 25182, 25152), (7th Fermat-Dao, 13, 396), (8th Fermat-Dao, 25166, 115), (10th Fermat-Dao, 25182, 25153), (11th Fermat-Dao, 13, 381), (12th Fermat-Dao, 25166, 25154), (14th Fermat-Dao, 25182, 25155), (16th Fermat-Dao, 25166, 25156), (outer-Garcia, 19106, 12781), (Gossard, 19106, 12793), (inner-Grebe, 19106, 6270), (outer-Grebe, 19106, 6268), (1st isodynamic-Dao, 13, 13), (2nd isodynamic-Dao, 25166, 22998), (Johnson, 19106, 5617), (inner-Johnson, 19106, 12922), (outer-Johnson, 19106, 12932), (1st Johnson-Yff, 19106, 12942), (2nd Johnson-Yff, 19106, 12952), (1st Lemoine-Dao, 13, 10654), (2nd Lemoine-Dao, 25166, 13), (inner-Le Viet An, 25182, 14181), (Lucas homothetic, 19106, 12990), (Lucas(-1) homothetic, 19106, 12991), (Mandart-incircle, 19106, 13076), (McCay, 22577, 13084), (medial, 19106, 618), (5th mixtilinear, 19106, 7975), (inner-Napoleon, 25166, 5463), (outer-Napoleon, 13, 2), (1st Neuberg, 25199, 6582), (2nd Neuberg, 25200, 6298), (1st tri-squares-central, 25201, 13705), (2nd tri-squares-central, 25202, 13825), (3rd tri-squares-central, 19106, 13917), (4th tri-squares-central, 19106, 13982), (1st tri-squares, 22493, 13646), (2nd tri-squares, 22493, 13765), (3rd tri-squares, 22636, 13876), (4th tri-squares, 22607, 13929), (inner-Vecten, 22607, 6302), (outer-Vecten, 22636, 6306), (X3-ABC reflections, 19106, 13103), (inner-Yff, 19106, 10062), (outer-Yff, 19106, 10078), (inner-Yff tangents, 19106, 13105), (outer-Yff tangents, 19106, 13107)

16th FERMAT-DAO EQUILATERAL TRIANGLE - Orthologic triangles and orthologic centers:

(ABC, 19107, 14), (ABC-X3 reflections, 19107, 5474), (anti-Aquila, 19107, 11706), (anti-Ara, 19107, 12141), (anti-Artzt, 22494, 12154), (1st anti-Brocard, 6778, 5978), (5th anti-Brocard, 19107, 12204), (6th anti-Brocard, 6778, 12213), (2nd anti-circumperp-tangential, 19107, 18975), (anti-Euler, 19107, 0), (anti-inner-Grebe, 19107, 19075), (anti-outer-Grebe, 19107, 19076), (anti-Mandart-incircle, 19107, 12336), (anti-McCay, 22578, 8594), (3rd anti-tri-squares, 22608, 22603), (4th anti-tri-squares, 22637, 22632), (anticomplementary, 19107, 617), (Aquila, 19107, 9900), (Ara, 19107, 9915), (Artzt, 22494, 9760), (1st Auriga, 19107, 12470), (2nd Auriga, 19107, 12471), (1st Brocard-reflected, 22696, 22689), (1st Brocard, 6778, 3642), (5th Brocard, 19107, 9981), (6th Brocard, 6778, 9988), (circumnormal, 0, 13594), (2nd circumperp tangential, 19107, 22774), (circumtangential, 0, 13593), (Ehrmann-mid, 19107, 22797), (Euler, 19107, 5479), (inner-Fermat, 22850, 14), (outer-Fermat, 22895, 617), (1st Fermat-Dao, 25177, 25208), (3rd Fermat-Dao, 25156, 5470), (4th Fermat-Dao, 14, 16268), (5th Fermat-Dao, 25177, 25162), (7th Fermat-Dao, 25156, 115), (8th Fermat-Dao, 14, 395), (9th Fermat-Dao, 25177, 25163), (11th Fermat-Dao, 25156, 25164), (12th Fermat-Dao, 14, 381), (13th Fermat-Dao, 25177, 25165), (15th Fermat-Dao, 25156, 25166), (outer-Garcia, 19107, 12780), (Gossard, 19107, 12792), (inner-Grebe, 19107, 6271), (outer-Grebe, 19107, 6269), (1st isodynamic-Dao, 25156, 22997), (2nd isodynamic-Dao, 14, 14), (Johnson, 19107, 5613), (inner-Johnson, 19107, 12921), (outer-Johnson, 19107, 12931), (1st Johnson-Yff, 19107, 12941), (2nd Johnson-Yff, 19107, 12951), (1st Lemoine-Dao, 25156, 14), (2nd Lemoine-Dao, 14, 10653), (outer-Le Viet An, 25177, 14177), (Lucas homothetic, 19107, 12988), (Lucas(-1) homothetic, 19107, 12989), (Mandart-incircle, 19107, 13075), (McCay, 22578, 13083), (medial, 19107, 619), (5th mixtilinear, 19107, 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), (inner-Napoleon, 14, 2), (outer-Napoleon, 25156, 5464), (1st Neuberg, 25203, 6295), (2nd Neuberg, 25204, 6299), (Roussel, 0, 0), (Stammler, 0, 8009), (1st tri-squares-central, 25205, 13703), (2nd tri-squares-central, 25206, 13823), (3rd tri-squares-central, 19107, 13916), (4th tri-squares-central, 19107, 13981), (1st tri-squares, 22494, 13645), (2nd tri-squares, 22494, 13764), (3rd tri-squares, 22637, 13875), (4th tri-squares, 22608, 13928), (inner-Vecten, 22608, 6303), (outer-Vecten, 22637, 6307), (X3-ABC reflections, 19107, 13102), (inner-Yff, 19107, 10061), (outer-Yff, 19107, 10077), (inner-Yff tangents, 19107, 13104), (outer-Yff tangents, 19107, 13106)

PARALLELOGIC TRIANGLES TO FERMAT-DAO TRIANGLES

Note: 0 means not yet calculated centers

1st FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 25211, 25212), (4th Fermat-Dao, 25213, 25214), (6th Fermat-Dao, 25211, 25215), (8th Fermat-Dao, 25213, 25219), (10th Fermat-Dao, 25211, 25221), (12th Fermat-Dao, 25213, 25223), (14th Fermat-Dao, 25211, 25225), (16th Fermat-Dao, 25213, 25227), (2nd isodynamic-Dao, 25213, 23014), (2nd Lemoine-Dao, 25213, 23028), (inner-Le Viet An, 25211, 14184), (inner-Napoleon, 25213, 14186)

2nd FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(circumnormal, 0, 0), (circumtangential, 0, 0), (1st Fermat-Dao, 25212, 25211), (3rd Fermat-Dao, 25216, 25217), (5th Fermat-Dao, 25212, 25218), (7th Fermat-Dao, 25216, 25220), (9th Fermat-Dao, 25212, 25222), (11th Fermat-Dao, 25216, 25224), (13th Fermat-Dao, 25212, 25226), (15th Fermat-Dao, 25216, 25228), (1st isodynamic-Dao, 25216, 23007), (1st Lemoine-Dao, 25216, 23022), (outer-Le Viet An, 25212, 14183), (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, 25216, 14188), (Roussel, 0, 0), (Stammler, 0, 0)

3rd FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 25217, 25216), (4th Fermat-Dao, 16529, 16530), (6th Fermat-Dao, 25217, 25229), (8th Fermat-Dao, 16529, 9115), (10th Fermat-Dao, 25217, 25231), (12th Fermat-Dao, 16529, 5617), (14th Fermat-Dao, 25217, 25233), (16th Fermat-Dao, 16529, 25235), (2nd isodynamic-Dao, 16529, 23005), (2nd Lemoine-Dao, 16529, 23006), (inner-Le Viet An, 25217, 14187), (inner-Napoleon, 16529, 13), (1st Parry, 13, 13305), (2nd Parry, 13, 9200)

4th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(circumnormal, 0, 13593), (circumtangential, 0, 13594), (1st Fermat-Dao, 25214, 25213), (3rd Fermat-Dao, 16530, 16529), (5th Fermat-Dao, 25214, 25230), (7th Fermat-Dao, 16530, 9117), (9th Fermat-Dao, 25214, 25232), (11th Fermat-Dao, 16530, 5613), (13th Fermat-Dao, 25214, 25234), (15th Fermat-Dao, 16530, 25236), (1st isodynamic-Dao, 16530, 23004), (1st Lemoine-Dao, 16530, 23013), (outer-Le Viet An, 25214, 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, 16530, 14), (1st Parry, 14, 13304), (2nd Parry, 14, 9201), (Roussel, 0, 0), (Stammler, 0, 8008)

5th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 25218, 25212), (4th Fermat-Dao, 25230, 25214), (6th Fermat-Dao, 25218, 25215), (8th Fermat-Dao, 25230, 25219), (10th Fermat-Dao, 25218, 25221), (12th Fermat-Dao, 25230, 25223), (14th Fermat-Dao, 25218, 25225), (16th Fermat-Dao, 25230, 25227), (2nd isodynamic-Dao, 25230, 23014), (2nd Lemoine-Dao, 25230, 23028), (inner-Le Viet An, 25218, 14184), (inner-Napoleon, 25230, 14186)

6th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(circumnormal, 0, 0), (circumtangential, 0, 0), (1st Fermat-Dao, 25215, 25211), (3rd Fermat-Dao, 25229, 25217), (5th Fermat-Dao, 25215, 25218), (7th Fermat-Dao, 25229, 25220), (9th Fermat-Dao, 25215, 25222), (11th Fermat-Dao, 25229, 25224), (13th Fermat-Dao, 25215, 25226), (15th Fermat-Dao, 25229, 25228), (1st isodynamic-Dao, 25229, 23007), (1st Lemoine-Dao, 25229, 23022), (outer-Le Viet An, 25215, 14183), (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, 25229, 14188), (Roussel, 0, 0), (Stammler, 0, 0)

7th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 25220, 25216), (4th Fermat-Dao, 9117, 16530), (6th Fermat-Dao, 25220, 25229), (8th Fermat-Dao, 9117, 9115), (10th Fermat-Dao, 25220, 25231), (12th Fermat-Dao, 9117, 5617), (14th Fermat-Dao, 25220, 25233), (16th Fermat-Dao, 9117, 25235), (2nd isodynamic-Dao, 9117, 23005), (2nd Lemoine-Dao, 9117, 23006), (inner-Le Viet An, 25220, 14187), (inner-Napoleon, 9117, 13), (1st Parry, 13, 13305), (2nd Parry, 13, 9200)

8th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(circumnormal, 0, 13593), (circumtangential, 0, 13594), (1st Fermat-Dao, 25219, 25213), (3rd Fermat-Dao, 9115, 16529), (5th Fermat-Dao, 25219, 25230), (7th Fermat-Dao, 9115, 9117), (9th Fermat-Dao, 25219, 25232), (11th Fermat-Dao, 9115, 5613), (13th Fermat-Dao, 25219, 25234), (15th Fermat-Dao, 9115, 25236), (1st isodynamic-Dao, 9115, 23004), (1st Lemoine-Dao, 9115, 23013), (outer-Le Viet An, 25219, 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, 9115, 14), (1st Parry, 14, 13304), (2nd Parry, 14, 9201), (Roussel, 0, 0), (Stammler, 0, 8008)

9th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 25222, 25212), (4th Fermat-Dao, 25232, 25214), (6th Fermat-Dao, 25222, 25215), (8th Fermat-Dao, 25232, 25219), (10th Fermat-Dao, 25222, 25221), (12th Fermat-Dao, 25232, 25223), (14th Fermat-Dao, 25222, 25225), (16th Fermat-Dao, 25232, 25227), (2nd isodynamic-Dao, 25232, 23014), (2nd Lemoine-Dao, 25232, 23028), (inner-Le Viet An, 25222, 14184), (inner-Napoleon, 25232, 14186)

10th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(circumnormal, 0, 0), (circumtangential, 0, 0), (1st Fermat-Dao, 25221, 25211), (3rd Fermat-Dao, 25231, 25217), (5th Fermat-Dao, 25221, 25218), (7th Fermat-Dao, 25231, 25220), (9th Fermat-Dao, 25221, 25222), (11th Fermat-Dao, 25231, 25224), (13th Fermat-Dao, 25221, 25226), (15th Fermat-Dao, 25231, 25228), (1st isodynamic-Dao, 25231, 23007), (1st Lemoine-Dao, 25231, 23022), (outer-Le Viet An, 25221, 14183), (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, 25231, 14188), (Roussel, 0, 0), (Stammler, 0, 0)

11th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 25224, 25216), (4th Fermat-Dao, 5613, 16530), (6th Fermat-Dao, 25224, 25229), (8th Fermat-Dao, 5613, 9115), (10th Fermat-Dao, 25224, 25231), (12th Fermat-Dao, 5613, 5617), (14th Fermat-Dao, 25224, 25233), (16th Fermat-Dao, 5613, 25235), (2nd isodynamic-Dao, 5613, 23005), (2nd Lemoine-Dao, 5613, 23006), (inner-Le Viet An, 25224, 14187), (inner-Napoleon, 5613, 13), (1st Parry, 4, 13305), (2nd Parry, 4, 9200)

12th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(circumnormal, 0, 13593), (circumtangential, 0, 13594), (1st Fermat-Dao, 25223, 25213), (3rd Fermat-Dao, 5617, 16529), (5th Fermat-Dao, 25223, 25230), (7th Fermat-Dao, 5617, 9117), (9th Fermat-Dao, 25223, 25232), (11th Fermat-Dao, 5617, 5613), (13th Fermat-Dao, 25223, 25234), (15th Fermat-Dao, 5617, 25236), (1st isodynamic-Dao, 5617, 23004), (1st Lemoine-Dao, 5617, 23013), (outer-Le Viet An, 25223, 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, 5617, 14), (1st Parry, 4, 13304), (2nd Parry, 4, 9201), (Roussel, 0, 0), (Stammler, 0, 8008)

13th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 25226, 25212), (4th Fermat-Dao, 25234, 25214), (6th Fermat-Dao, 25226, 25215), (8th Fermat-Dao, 25234, 25219), (10th Fermat-Dao, 25226, 25221), (12th Fermat-Dao, 25234, 25223), (14th Fermat-Dao, 25226, 25225), (16th Fermat-Dao, 25234, 25227), (2nd isodynamic-Dao, 25234, 23014), (2nd Lemoine-Dao, 25234, 23028), (inner-Le Viet An, 25226, 14184), (inner-Napoleon, 25234, 14186)

14th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(circumnormal, 0, 0), (circumtangential, 0, 0), (1st Fermat-Dao, 25225, 25211), (3rd Fermat-Dao, 25233, 25217), (5th Fermat-Dao, 25225, 25218), (7th Fermat-Dao, 25233, 25220), (9th Fermat-Dao, 25225, 25222), (11th Fermat-Dao, 25233, 25224), (13th Fermat-Dao, 25225, 25226), (15th Fermat-Dao, 25233, 25228), (1st isodynamic-Dao, 25233, 23007), (1st Lemoine-Dao, 25233, 23022), (outer-Le Viet An, 25225, 14183), (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, 25233, 14188), (Roussel, 0, 0), (Stammler, 0, 0)

15th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(2nd Fermat-Dao, 25228, 25216), (4th Fermat-Dao, 25236, 16530), (6th Fermat-Dao, 25228, 25229), (8th Fermat-Dao, 25236, 9115), (10th Fermat-Dao, 25228, 25231), (12th Fermat-Dao, 25236, 5617), (14th Fermat-Dao, 25228, 25233), (16th Fermat-Dao, 25236, 25235), (2nd isodynamic-Dao, 25236, 23005), (2nd Lemoine-Dao, 25236, 23006), (inner-Le Viet An, 25228, 14187), (inner-Napoleon, 25236, 13), (1st Parry, 19106, 13305), (2nd Parry, 19106, 9200)

16th FERMAT-DAO EQUILATERAL TRIANGLE - Parallelogic triangles and parallelogic centers:

(circumnormal, 0, 13593), (circumtangential, 0, 13594), (1st Fermat-Dao, 25227, 25213), (3rd Fermat-Dao, 25235, 16529), (5th Fermat-Dao, 25227, 25230), (7th Fermat-Dao, 25235, 9117), (9th Fermat-Dao, 25227, 25232), (11th Fermat-Dao, 25235, 5613), (13th Fermat-Dao, 25227, 25234), (15th Fermat-Dao, 25235, 25236), (1st isodynamic-Dao, 25235, 23004), (1st Lemoine-Dao, 25235, 23013), (outer-Le Viet An, 25227, 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, 25235, 14), (1st Parry, 19107, 13304), (2nd Parry, 19107, 9201), (Roussel, 0, 0), (Stammler, 0, 8008)