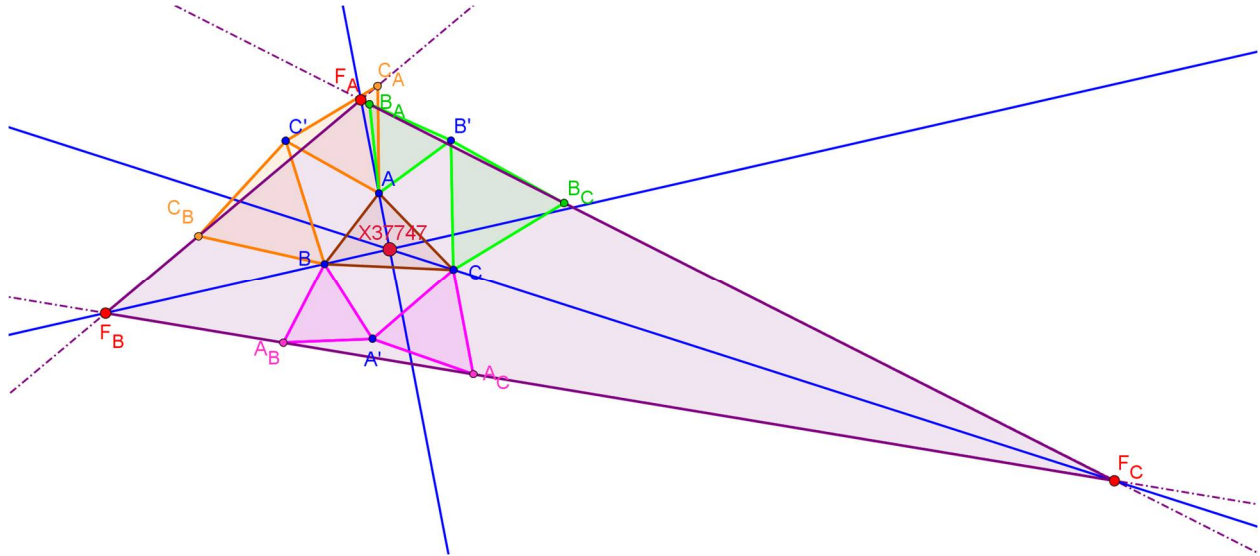


X(37747) = THE ISOGONAL CONJUGATE OF X(22900)



Geometrical construction of X(37747):

Let ABC be an arbitrary triangle, A' be the reflection of A with respect to side BC, similarly construct B', C'. Erect equilateral triangles AC_A C', BC_B C' on the sides of AC', BC' with apex as C_A, C_B respectively, similarly Erect equilateral triangles BA_B A', CA_C A' and CB_C B', AB_A B' on the sides BA', CA' and CB', AB' respectively.

Let $F_A = C_A C_B \cap B_A B_C$, $F_B = C_A C_B \cap A_B A_C$ and $F_C = B_A B_C \cap A_B A_C$

The triangle F_AF_BF_C is perspective with the triangle ABC and perspector is " X(37747)"

X(37747) = THE ISOGONAL CONJUGATE OF X(22900)

The barycentric coordinates of this point is as follows

$$a^2 / (a^2 (2S + \sqrt{3} b^2) (2S + \sqrt{3} c^2) - \sqrt{3} (\sqrt{3} S + SB) (\sqrt{3} S + SC) ((2S + \sqrt{3} a^2))) :::$$

Search number of 6-9-13 triangle for this point is

1.752285613002971681007479615312675410585528944448367....

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