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An Equilateral Triangle Centered at X(51)

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1. Introduction

Proofs are encouraged to demonstrate the following proposition mentioned in Euclid #8413.

2. Results

Theorem 2.1. *Let ABC be a triangle.*
Let $A'B'C'$ be the first or second Napoleon triangle.
Let A_b be the reflection of A' about line AC.
Define B_a, B_c, C_a, and C_b cyclically.
Then the midpoints of A_bB_a, A_cC_a, and B_cC_b form an equilateral triangle centered about the centroid of the orthic triangle.

References

Weisstein, Eric W. "Equilateral Triangle." From MathWorld–A Wolfram Resource. https://mathworld.wolfram.com/EquilateralTriangle.html

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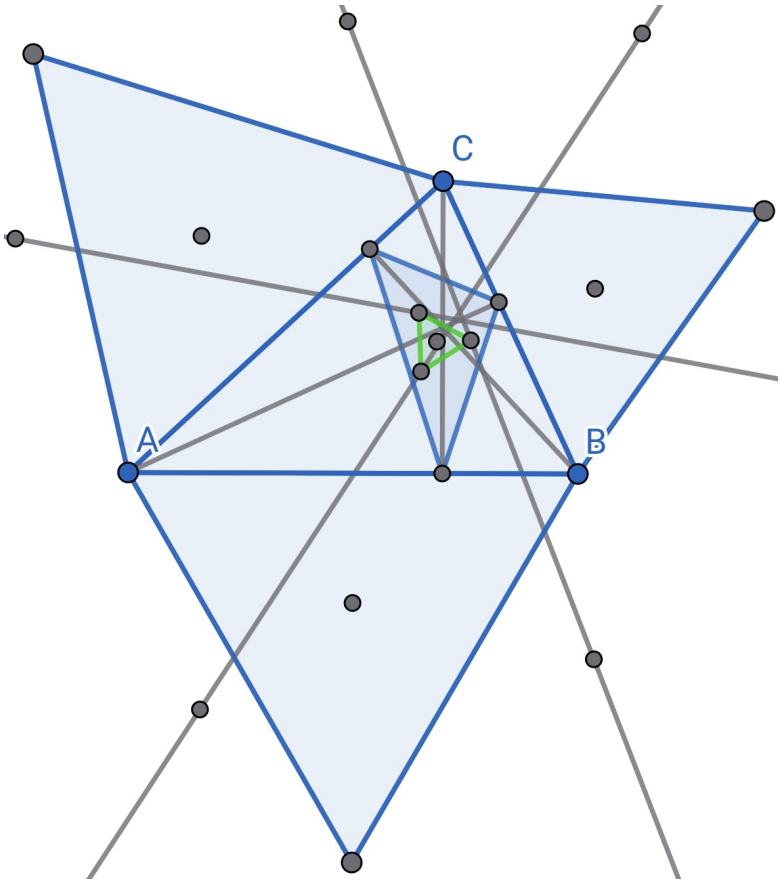

FIGURE 1. Illustration.