REFERENCES

1. E. P. Miles, Jr., "Generalized Fibonacci Numbers and Associated Matrices," Amer. Math. Month. 67 (October 1960), pp 745—752.
2. R. L. Gilstad, "Polyphase Merge Sorting—an Advanced Technique," Proc. Eastern Joint Computer Conference, Dec. 1960.
3. G. Polya, Induction and Analogy in Mathematics, Princeton, Chapter 5, p. 77.

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FIBONACCI YET AGAIN

J. A. H. Hunter

Consider a triangle such that the square of one side equals the product of the other two sides.

Then we have sides: $X, \sqrt{XY}$, and Y; say $X > Y$.

Eliminating an common factor we may set $X = a^2$, $Y = b^2$, so that the "reduced" sides become a^2, ab, b^2.

Then, for a triangle, we must have $ab + b^2 > a^2$ which requires $(\sqrt{5} - 1)/2 < b/a < (\sqrt{5} + 1)/2$.

Hence a sufficient condition for a triangle that meets the requirements is

$$F_{2n-1}/F_{2n} < b/a < F_{2n}/F_{2n-1} \quad \text{with} \quad X = ka^2, \; Y = kb^2 \; .$$

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All subscription correspondence should be addressed to Brother U. Alfred, St. Mary's College, Calif. All checks ($4.00 per year) should be made out to the Fibonacci Association or the Fibonacci Quarterly. Manuscripts intended for publication in the Quarterly should be sent to Verner E. Hoggatt, Jr., Mathematics Department, San Jose State College, San Jose, Calif. All manuscripts should be typed, double-spaced. Drawings should be made the same size as they will appear in the Quarterly, and should be done in India ink on either vellum or bond paper. Authors should keep a copy of the manuscripts sent to the editors.

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