

Problem I.5

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To determine if Cassini's identity holds, evaluated the left and right hand sides of the equations, then turned it into a Boolean expression to tell if the two sides were equal or not. It prints out true or false respectively.

After trying different initial terms, I found that when the terms were consecutive terms of the Fibonacci sequence that Cassini's identity is alternating true and false. Of the terms of the Fibonacci sequence starting with 0 and 1, every odd numbered term is true and every even numbered term is false by Cassini's identity. But, if the terms are not consecutive terms of the Fibonacci sequence, then Cassini's identity is always false.