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terms of  $n$  and the golden ratio, and implies that the ratio of two consecutive

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Cassini's identity  
(sometimes called  
Simson's identity) and  
Catalan's identity are  
mathematical identities  
for the Fibonacci  
numbers. Cassini's  
identity, a special case of  
Catalan's identity, states  
that for the  $n$ th  
Fibonacci number,  $F_n$



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edition (March 13,  
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