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*Sequences  $\{H_n\}$  for Which  $H_{n+1}/H_n$  Approaches an Irrational Number,*

Fibonacci Quart. **48** (2010), no. 3, 265–275.

**Abstract**

We study the sequence  $\{H_n\}$  for which  $H_{n+1}/H_n$  approaches an irrational number. This result includes a special case obtained by Gatta and D'Amico. We also generalize it to the case of the  $s$ th order recurrence relation.