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 $Fibonacci\,fractions\,from\,Heron's\,\,square\,\,root\,\,approximation\,\,of\,the\,\,golden\,\,ratio,$ 

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## Abstract

Heron's method is used to approximate  $\sqrt{5}$  in order to find successive rational approximations of the Golden Ratio, and a characterization is given for when the results always will be ratios of successive Fibonacci numbers.