

We see that the sequence  $a_n$  is defined by the rule  $a_{n+2} = k \cdot a_{n+1} + a_n$  for all  $n \geq 1$ . That is,  $a_n = F_n^{(k)}$ , and

$$\phi_k = \frac{x}{y} = \frac{F_{n+2}^{(k)} \cdot R_n + F_{n+1}^{(k)} \cdot R_{n+1}}{F_{n+1}^{(k)} \cdot R_n + F_n^{(k)} \cdot R_{n+1}} \approx \frac{F_{n+2}^{(k)}}{F_{n+1}^{(k)}}.$$

This is the desired generalization of the geometric approximation in the introduction.

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### A MESSAGE OF GRATITUDE TO DR. STANLEY RABINOWITZ

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