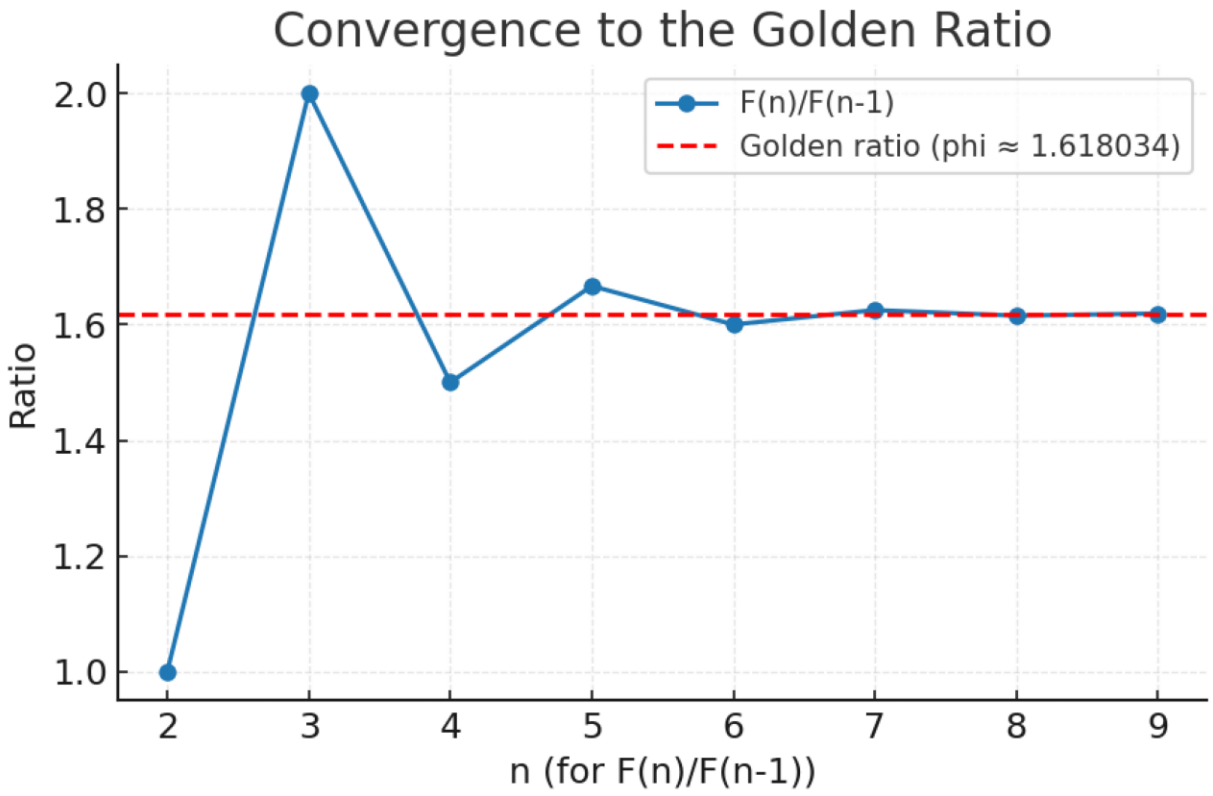
Convergence to the Golden Ratio



Explanation:
As n increases, the ratio of consecutive Fibonacci numbers F(n)/F(n−1) approaches the
ratio, phi ≈ 1.618033988750. This happens because the Fibonacci sequence satisfies th
recurrence F(n)=F(n−1)+F(n−2). The characteristic equation r^2 = r + 1 has the domi
= phi, so the ratio of successive terms converges to this value.

First 10 Fibonacci numbers:
0, 1, 1, 2, 3, 5, 8, 13, 21, 34