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1 /Users/acdmacmini/Desktop/.venv/bin/python /Users/
acdmacmini/Desktop/MicrotubuleSimulation/
proof_postulate.py
2 Fibonacci Ratios: [0.0 4.56781616836507e-20 4.
56781616836507e-20 9.13563233673014e-20
3 1.370344850509521e-19 2.283908084182535e-19 3.
654252934692056e-19
4 5.938161018874591e-19 9.592413953566648e-19 1.
5530574972441239e-18
5 2.5122988926007884e-18 4.065356389844913e-18 6.
577655282445702e-18
6 1.0643011672290612e-17 1.7220666954736312e-17 2.
786367862702693e-17
7 4.508434558176324e-17 7.294802420879017e-17 1.
1803236979055342e-16
8 1.9098039399934358e-16 3.09012763789897e-16 4.
999931577892406e-16
9 8.090059215791376e-16 1.3089990793683783e-15 2.
118005000947516e-15
10 3.427004080315894e-15 5.5450090812634096e-15 8.
972013161579303e-15
11 1.4517022242842714e-14 2.3489035404422016e-14 3.
800605764726473e-14
12 6.149509305168674e-14 9.950115069895147e-14 1.
6099624375063823e-13
13 2.604973944495897e-13 4.2149363820022796e-13 6.
819910326498177e-13
14 1.1034846708500455e-12 1.785475703499863e-12 2.
8889603743499088e-12
15 4.6744360778497715e-12 7.56339645219968e-12 1.
2237832530049451e-11
16 1.980122898224913e-11 3.2039061512298584e-11 5.
184029049454772e-11
17 8.38793520068463e-11 1.3571964250139401e-10 2.
1959899450824032e-10
18 3.553186370096343e-10 5.749176315178747e-10 9.
30236268527509e-10
19 1.5051539000453838e-09 2.435390168572893e-09 3.
940544068618277e-09
20 6.3759342371911695e-09 1.0316478305809445e-08 1.
6692412543000616e-08

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21  2.700889084881006e-08 4.370130339181067e-08 7.
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22  1.144114976324314e-07 1.8512169187305216e-07 2.
    9953318950548354e-07
23  4.846548813785356e-07 7.841880708840192e-07 1.
    268842952262555e-06
24  2.053031023146574e-06 3.3218739754091292e-06 5.
    3749049985557024e-06
25  8.696778973964833e-06 1.4071683972520536e-05 2.
    2768462946485366e-05
26  3.6840146919005905e-05 5.960860986549127e-05 9.
    644875678449718e-05
27  0.00015605736664998845 0.0002525061234344856 0.
    0004085634900844741
28  0.0006610696135189596 0.0010696331036034337 0.
    0017307027171223933
29  0.0028003358207258273 0.004531038537848221 0.
    007331374358574048
30  0.011862412896422269 0.019193787254996316 0.
    031056200151418585
31  0.0502499874064149 0.08130618755783348 0.
    13155617496424837
32  0.21286236252208188 0.3444185374863302 0.
    5572809000084121
33  0.9016994374947424 1.4589803375031547 2.
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34  3.8196601125010514 6.180339887498949 10.0]
35 v_fibonacci shape: (100,)
36 v_constant shape: (100,)
37 v_quadratic shape: (100,)
38 Fibonacci Ratios: [0.0 4.56781616836507e-20 4.
    56781616836507e-20 9.13563233673014e-20
39  1.370344850509521e-19 2.283908084182535e-19 3.
    654252934692056e-19
40  5.938161018874591e-19 9.592413953566648e-19 1.
    5530574972441239e-18
41  2.5122988926007884e-18 4.065356389844913e-18 6.
    577655282445702e-18
42  1.0643011672290612e-17 1.7220666954736312e-17 2.
    786367862702693e-17
43  4.508434558176324e-17 7.294802420879017e-17 1.

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43 1803236979055342e-16  
 44 1.9098039399934358e-16 3.09012763789897e-16 4.  
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 45 8.090059215791376e-16 1.3089990793683783e-15 2.  
 118005000947516e-15  
 46 3.427004080315894e-15 5.5450090812634096e-15 8.  
 972013161579303e-15  
 47 1.4517022242842714e-14 2.3489035404422016e-14 3.  
 800605764726473e-14  
 48 6.149509305168674e-14 9.950115069895147e-14 1.  
 6099624375063823e-13  
 49 2.604973944495897e-13 4.2149363820022796e-13 6.  
 819910326498177e-13  
 50 1.1034846708500455e-12 1.785475703499863e-12 2.  
 8889603743499088e-12  
 51 4.6744360778497715e-12 7.56339645219968e-12 1.  
 2237832530049451e-11  
 52 1.980122898224913e-11 3.2039061512298584e-11 5.  
 184029049454772e-11  
 53 8.38793520068463e-11 1.3571964250139401e-10 2.  
 1959899450824032e-10  
 54 3.553186370096343e-10 5.749176315178747e-10 9.  
 30236268527509e-10  
 55 1.5051539000453838e-09 2.435390168572893e-09 3.  
 940544068618277e-09  
 56 6.3759342371911695e-09 1.0316478305809445e-08 1.  
 6692412543000616e-08  
 57 2.700889084881006e-08 4.370130339181067e-08 7.  
 071019424062073e-08  
 58 1.144114976324314e-07 1.8512169187305216e-07 2.  
 9953318950548354e-07  
 59 4.846548813785356e-07 7.841880708840192e-07 1.  
 268842952262555e-06  
 60 2.053031023146574e-06 3.3218739754091292e-06 5.  
 3749049985557024e-06  
 61 8.696778973964833e-06 1.4071683972520536e-05 2.  
 2768462946485366e-05  
 62 3.6840146919005905e-05 5.960860986549127e-05 9.  
 644875678449718e-05  
 63 0.00015605736664998845 0.0002525061234344856 0.  
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64 0.0006610696135189596 0.0010696331036034337 0.  
0017307027171223933  
65 0.0028003358207258273 0.004531038537848221 0.  
007331374358574048  
66 0.011862412896422269 0.019193787254996316 0.  
031056200151418585  
67 0.0502499874064149 0.08130618755783348 0.  
13155617496424837  
68 0.21286236252208188 0.3444185374863302 0.  
5572809000084121  
69 0.9016994374947424 1.4589803375031547 2.  
360679774997897  
70 3.8196601125010514 6.180339887498949 10.0]  
71 v_fibonacci shape: (100,)  
72 v_constant shape: (100,)  
73 v_quadratic shape: (100,)  
74  
75 Process finished with exit code 0  
76
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