| Tertiary Tree of Primitive Pythagorean Triples |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 3rd Tertiary Branches     <br> PPT $r$ $s$ $t$ $A$ |
|  | 212684481 |  | Making the"re <br> The sum, $\Sigma$, of 3-4-5 = 12 and b The sum, $\Sigma$, of 20-21-29 = 70 and The sum, $\Sigma$, of 119-120-169 = 40 RED <br> The larger sor $t$ of the BLUE bec for the 5-12-13 PPT, the larger $t=$ for the 8-15-17 PPT, the larger $t=$ <br> The MIDDLE RED 20-21-29 PPT $a=r+s=12+8=20 \quad b=r+t=$ giving the MIDDLE RED 20-21-29 <br> The $f$-value as $f=\mathrm{b}-\mathrm{a}=21-20$ | ecomes the $r$-value of MIDDLE RED becomes the $r$-value of MIDDLE RED 8 and becomes the $r$-value of MIDDLE <br> omes the $s, t$ values of the MIDDLE RED <br> 8 becomes the $s$-value of MIDDLE RED 9 becomes the $t$-value of MIDDLE RED. <br> has $r=12, s=8$ and $t=9$ values, so $12+9=21 \quad c=r+s+t=12+8+9=29$ <br> PPT Branch. $=1$ |
| ${ }_{\text {cc }}^{\text {Table }}$ | Key: PPT=Primitive The lead $f$-value of its predec Using the Expanded Dicks values are derived directly from made from the trunk (red). Sequence that defines the | es branches from the 3-4-5 PPT trunk first ch sequence, Plato (a century later) disco <br> Method on the BBS-ISL Matrix, every PP In Table 2c, we see how the MIDDLE b t branchings, continues through the entire | where $s, t$ are Factor Pairs; $A=A$ rea; $4 A=4 A r e a ; 8 A=8 A r e a ;$ into a 3-part main branch, each of which further branches ered the LOWER branch sequence. The MIDDLE branch UPPER and LOWER <br> Table 2a we looked at the overall. In Table 2b metry. In Table 2a we looked at the overall. In Table 2b, anch (red) is formed from the UPPER and LOWER (blue) b ree. Table 2d shows BLUE branching to 2nd Tertiary Brand |  PTs - with no repeats - are to be found. Pythagoras first sequence follows as an intermediary, hybrid sequence of the <br> e by enisting the $r, s, t, 4 \mathrm{~A}, \mathrm{BA}$, fassociated values. Al these we examine how the UPPER and LOWER branches (blue) are anches and the trunk (red). As a fractal, this Number Pattern nches. Table 2 e reveals the power of $f$. Table $2 f$ tells all. |

