Table 2o

# Tertiary Tree of Primitive Pythagorean Triples

The Differences, Δ, between *p*-values is in **BLACK**.
The Δ between the MIDDLE Δ and the sum, Σ, of the UPPER + LOWER Δ = the Δ PREVIOUS.
The Σ of the UPPER + LOWER Δ =the $p_{previous}$ value of the Branch before, shown in WHITE.

| Trunk PPT | 1st Tertiary Branch PPT | 2nd Tertiary Branches PPT | 3rd Tertiary Branches PPT | 4th Tertiary Branches PPT | 5th Tertiary Branches PPT |
|---|---|---|---|---|---|
| 3-4-5 | 20-21-29 | 119-120-169 | 696-697-985 | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | | 696-697-985 | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
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| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | 119-120-169 | 696-697-985 | 4059-4060-5741 | 23660-23661-33461 |
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| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | | 696-697-985 | 4059-4060-5741 | 23660-23661-33461 |
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| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | 119-120-169 | 696-697-985 | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | | 696-697-985 | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
| | | | | 4059-4060-5741 | 23660-23661-33461 |
| 5-12-13 | 4-3-5 | 8-15-17 | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | 8-15-17 | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | 20-21-29 | 12-35-37 | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | 12-35-37 | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |
| 7-24-25 | 8-15-17 | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | 8-15-17 | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | 56-65-73 | 392-455-597 | 2744-3185-4181 |
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| | | | | 392-455-597 | 2744-3185-4181 |
| | 20-21-29 | 12-35-37 | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | 12-35-37 | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |
| 9-40-41 | 8-15-17 | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | 8-15-17 | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | 56-65-73 | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | | | | 392-455-597 | 2744-3185-4181 |
| | 20-21-29 | 12-35-37 | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | 12-35-37 | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | 133-156-205 | 924-1085-1405 | 6416-7533-9941 |
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| | | | | 924-1085-1405 | 6416-7533-9941 |
| | | | | 924-1085-1405 | 6416-7533-9941 |

**Following U/Lvp:**
*The U/lvp* (where the **COMMON DIGEMOR** PPT **GOLDEN TREE DIGAMI** is in **AIR**)

$$U = p^2 + P + qp$$
$$p = U/U$$

Each **Tertiary Branch cluster** segment has the **SAME p-value**–**AND**–**equals the previous c-value** of the **Third Branch** from which it came.

This pattern makes back to the previous, larger **Branch** from which it came by multiples of.

**Table 2o** The **Tree of Pythagorean Triples** branches from the **3-4-5 PPT** trunk triplet in a super-triple branch, each of which further branches into 3rd, 3rd, 4th, ... tertiary branches. Each tertiary follows the least trunk-p of its predecessor and is actually formed as an intermediary to the upper and lower branches of which it is a part. **All PPTs** – with no repeats – are to be found. **Pythagorean** first discovered the UPPER branch sequence. **Plato** (a century later) discovered the LOWER branch sequence. The MIDDLE branch sequence follows the UPPER and LOWER branches and the trunk triplet. **Table 2o** shows the UPPER and LOWER branches of the trunk triplet, the 1st Tertiary Branch, the 2nd Tertiary Branches, the 3rd Tertiary Branches, the 4th Tertiary Branches and the 5th Tertiary Branches. **Table 2o** shows the MIDDLE branch ends in formed from the UPPER and LOWER Branch branches and the trunk triplet. As a Logic, this **Number Pattern Sequence** that defines the tree branchings, continues through the entire tree. **Table 2d** shows BLUE branching to **2nd Tertiary Branches**. **Table 2e** reveals the power of 7 **Table 2f** tells all. **Table 2g** follows **Table 2f** and **p**. In **Table 2i** p, the **4th Tertiary Branch** is added. In **Table 2l** m, the **5th Tertiary Branch** is added.

Key: **PPT**=**Primitive Pythagorean Triple**; **newest** = if such that **PGcd**=newest and **c** Factor Pairs: **Aodeno**; **MidAdeno**; **MidAdeno**; **Ado-k**; **Pudh-qf** $m^2 + N^2 = d^2 + 4N$; **f** = **PLdN**; **d** = **f** - **4N**; **L-Group**

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