**Pythagorean Triples!**



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| --- | --- | --- | --- | --- | --- |
| aleg | bleg | chypotenuse | Area of square with side length a= a2 | Area of square with side length b= b2 | Area of square with side length c= c2 |
| 3 | 4 | 5 | 9 | 16 | 25 |
| 6 | 8 | 10 |  |  |  |
| 9 | 12 | 15 |  |  |  |
| 5 | 12 | 13 |  |  |  |
| 10 | 24 | 26 |  |  |  |
| 15 | 36 | 39 |  |  |  |
| 8 | 15 | 17 |  |  |  |
| 16 | 30 | 34 |  |  |  |
| 24 | 45 | 51 |  |  |  |
| 7 | 24 | 25 |  |  |  |
| 14 | 48 | 50 |  |  |  |
| 21 | 72 | 75 |  |  |  |

**Question:** Is it true that a2 + b2 = c2 in a right triangle? What if a2 + b2 > c2? What about if a2 + b2 < c2?