DM STAT-1 CONSULTING **BRUCE RATNER, PhD**

574 Flanders Drive North Woodmere, NY 11581 br@dmstat1.com
516.791.3544 ~ fax 516.791.5075 www.dmstat1.com

Data Mining: Illustration of the Pythagorean Theorem

Bruce Ratner, Ph.D.

Notwithstanding the implied cautionary details to be considered when evaluating, interpreting, and implementing, I put forth my favorite pithy definition of data mining: *Any process that yields unexpected relationships among variables within a dataset*. [1] The purpose of this article is to give spirit and support to the concept of data mining. I display my data mining efforts via the GenIQ Model [2] to illustrate the Pythagorean Theorem in Figure 1, using the first ten Pythagorean triplets in Table 1, below. In other words, GenIQ uncovers once-a-truly unexpected relationship among the three sides of a right triangle in Figure 2, below.

If you are interested in the GenIQ data mining process, please email me. However, I would like you to email me your data mining illustration the Pythagorean Theorem. Sharing our approaches will "guaranty a splendid time for all."

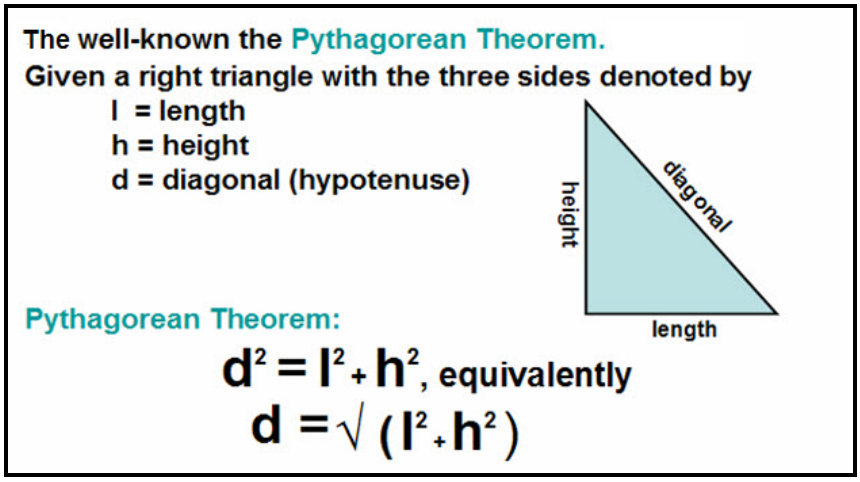

Figure 1. Pythagorean Theorem

Table 1

(l,h,d)	length	height	diagonal
1	3	4	5
2	5	12	13
3	7	24	25
4	8	15	17
5	9	40	41
6	11	60	61
7	12	35	37
8	13	84	85
9	16	63	65
10	20	21	29

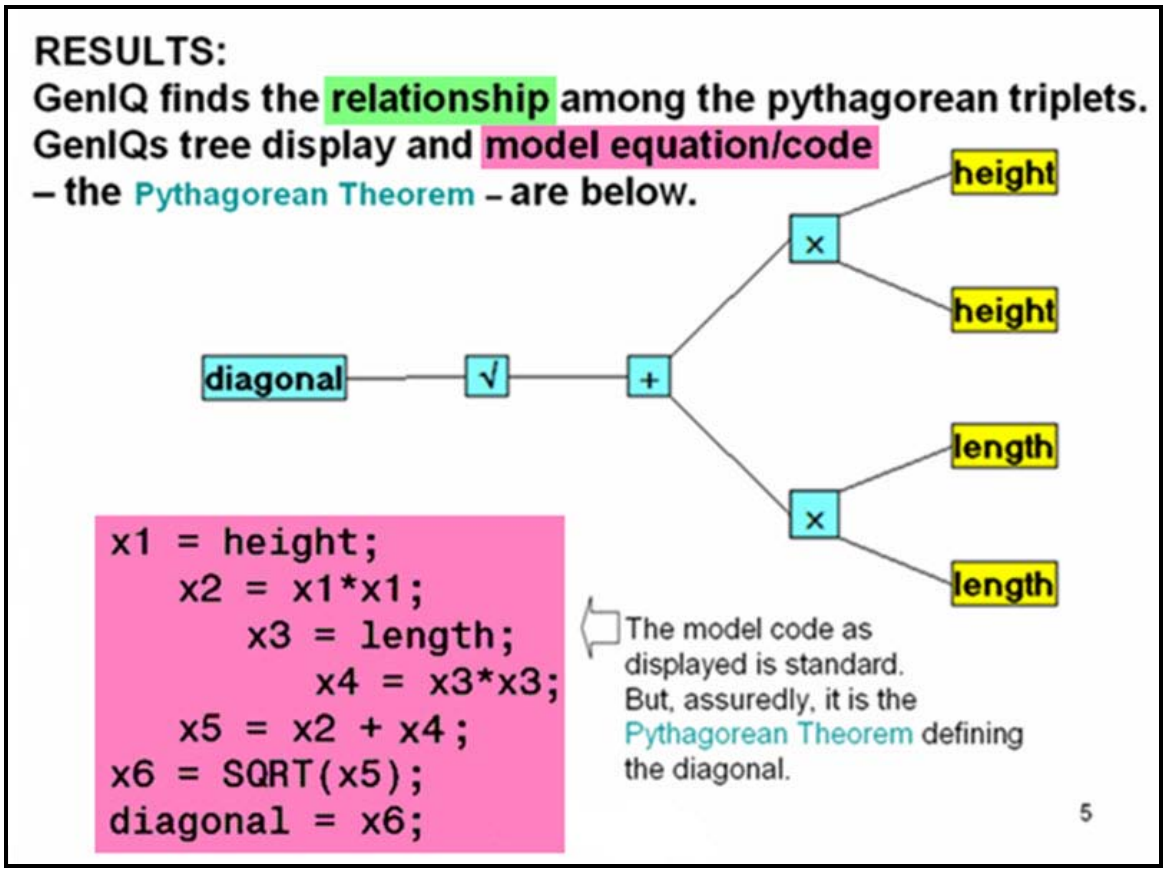

Figure 2. GenIQ Uncovers the Pythagorean Theorem

Reference:

1. http://www.geniq.net/res/data-mining-is-an-ill-defined-concept.html
2. What is the GenIQ Model?

br@dmstat1.com (516) 791-3544