1127-01-208 donald a. sokol* (vsokol@gmail.com), 11 s 047 Palisades Rd., Burrr Ridge, IL 60527. Encryption and the Integer (Pythagorean) Triple.
The algorithm the Babylonians used almost four thousand years ago to generate integer (Pythagorean) triples employed the ratio $60 / 15$ and triangular numbers to construct a , and x 2 to construct c , and 2 y 2 to construct b ; thus $\mathrm{c}-\mathrm{a}=\mathrm{x} 2$ and $\mathrm{c}-\mathrm{b}=2 \mathrm{y} 2$, About fifteen hundred years later, Euclid modified the Babylonian algorithm and $\mathrm{x} 2+\mathrm{y} 2=\mathrm{c} ; \mathrm{x} 2-\mathrm{y} 2=\mathrm{b}$ or $\mathrm{c}+\mathrm{b}=2 \mathrm{x} 2, \mathrm{c}-\mathrm{b}=2 \mathrm{y} 2$. Circa the year 2000, this author modified the Babylonian construct in the method of Euclid and $\mathrm{c}+\mathrm{a}=\mathrm{x} 2$ with $\mathrm{c}-\mathrm{b}=2 \mathrm{y} 2$. Consequently, for the integer triple $4,5,3 ; \mathrm{x}=1, \mathrm{y}=1$ for the Babylonian construct; $\mathrm{x}=2, \mathrm{y}=1$ for the Euclidian construct; and $x=3, y=1$ for the Sokolian construct. There are numerous other, if not an infinite number of constructs that produce similar results, thus raising the possibility for a system of encryption. (Received February 03, 2017)

