CHAPTER 4

OBJECTIVE OF THE THESIS

Keeping this in mind, the researcher delved into this new theorem and attempted to formulate new interpretations and theorems. In the closing years of the 19th century, the top mathematicians Beltrami, Klein, Poincare and others established once and for all that it is not merely difficult but impossible to prove Euclid’s fifth postulate as a theorem. But the researcher and the mentor of the researcher Kalimuthu have found several consistent solutions for this unsolved problem. The works have been published in leading international peer reviewed reputed journals.

1. It is impossible to deduce Euclid V from Euclid I to IV.

   Beltrami, Cayley, Klein, Poincare proposition (Marvin 1994)

2. It is possible to deduce Euclid V from Euclid I to IV

   Kalimuthu’s theorem (Kalimuthu 2010)

   The first proposition contradicts the second theorem whereas the second theorem disproves first proposition. A logical analysis of this statement proves Miles Mathis’s equivalent proposition to Godel’s first incompleteness theorem which state that in any logical system one can construct statements that are neither true nor false, consequently both the above said propositions and theorems are neither true nor false.
The author’s finding is a great leap in the mathematical logic and mathematical development. Also, this is the first mathematical phenomenon. No previous researcher has encountered such an occurrence. This is the major finding of the author’s thesis.