∝ Euclid Automated Prover

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// Lemma Substitutions // $a^2 + 2ab + b^2 \Leftarrow (a+b)^2 \qquad (0000)$ $(a+b)^2 - 2ab = c^2 \Leftarrow (a+b)^2 = c^2 + 2ab \qquad (0001)$ $a^2 + 2ab - 2ab + b^2 \Rightarrow a^2 + b^2 \qquad (0002)$ // Axioms (Syntax & Semantics assumed valid) // $(a+b)^2 = c^2 + 2ab \qquad (0003)$ Prove : $a^2 + b^2 = c^2 \qquad (0004)$

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