[12pt]article amsmath, amssymb, xcolor [margin=1in]geometry

Vector Space Proof Demonstration

Generated by the Khwarizmi Symbolic System

Goal: Prove that $(1+-1) \cdot u = 0$

Start:
$$(1 + -1)$$

 $(1) (1 + -1) = 0$ [Scalar_Arith]
 $(1a) (1 + -1) \cdot u = 0 \cdot u$ [Scalar_Arith]
 $(2) 0 \cdot u = 0$ [VS_Zero_Mul]

Final Result: 0

Q.E.D.