

Vector Space Proof Demonstration

Generated by the Khwarizmi Symbolic System

Goal: Prove that $-1 \cdot -1 \cdot u = u$

Start: $-1 \cdot -1$

$$(1) \quad -1 \cdot -1 = 1 \quad [Scalar_Arith]$$

$$(1a) \quad -1 \cdot -1 \cdot u = 1 \cdot u \quad [Scalar_Arith]$$

$$(2) \quad 1 \cdot u = u \quad [VS_Scalar_Id]$$

Final Result: u

Q.E.D.