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

Vector Space Proof Demonstration

Generated by the Khwarizmi Symbolic System

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

Start: $-1 \cdot -1$ $(1) -1 \cdot -1 = 1$ [Scalar_Arith] $(1a) -1 \cdot -1 \cdot u = 1 \cdot u$ [Scalar_Arith] $(2) 1 \cdot u = u$ [VS_Scalar_Id]

Final Result: u

Q.E.D.