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

Vector Space Proof Demonstration

Generated by the Khwarizmi Symbolic System

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

Proof:

$$(2)\ 1 \cdot 1 \cdot u = 1 \cdot u \quad [VS\_Scalar\_Id]$$
$$(2a)\ 1 \cdot u = u \qquad\quad [VS\_Scalar\_Id]$$

Hence, $u = u$

Proof log automatically generated by Khwarizmi. All transformations follow registered axioms.