

Eqs. 1.2, 2.2, and 3.2 as rendered are *not* tautologous. This means linear algebra is refuted on its face as not being bivalent.

Remark: The linear transformation property is the defining characteristic of a linear map. However, Eq. 3.2 is not tautologous. This causes suspicion for the many systems relying on a segment of linear algebra.