## Problem #77 (Solved!)

Originator: Freese Date: June 1993

Summary: Is there a finite, normal form, associative-commutative term-rewriting system for lattices?

## Remark

J Jezek, J. B. Nation, and R. Freese [Fre93] have shown that there is no finite, normal form, associative-commutative term-rewriting system for lattices. This is somewhat surprising because every lattice term is equivalent under lattice theory to a shortest term which is unique up to associativity and commutativity (known as "Whitman canonical form").

## Bibliography

 $[{\rm Fre}93]\,$  R. Freese. personal communication, 1993.