Theorem Proving and Equality

Exercise 6 *Using Otter and SPASS prove that left inverse is also the right inverse in a group theory.*

($e = f(x, i(x))$ follows from the axioms of group theory:
$f(f(x, y), z) = f(x, f(y, z))$
$f(e, x) = x$
$f(i(x), x) = e$*)*