```
it_sum_def  THM

⊢  it_sum(nil) = 0
   & (∀l:ℕ List. ¬mt(l) ⇒ it_sum(l) = head(l)+it_sum(tl(l)))
   & (∀x:ℕ, l:ℕ List. it_sum(cons(x; l)) = x+it_sum(l))
  by RecUnfoldThm THEN Simp THEN Analyze -1
END
```