```
fun_exp_add  THM

⊢  ∀T:Type, n,m:ℕ, f:(T→T). f^n+m = f^n o f^m
  by Auto THEN RWO "fun_exp_compose" 0 THEN Auto'

     THEN Unfold `fun_exp` 0
THEN InstLemma `primrec_add` [T→T;n;m;
     λx.x;λi,g. f o g]
THENM Reduce (-1)
THEN Auto
END
```