```
hprim_rec_eqn  THM

⊢  ∀'a:S.
   all
   (λx:'a. all
           (λf:'a → hnum → 'a. and
                               (all
                                (λn:hnum. equal
                                          (prim_rec_fun(x,f,0,n)
                                          ,x))
                               ,all
                                (λm:hnum. all
                                          (λn:hnum. equal
                                                    (prim_rec_fun
                                                     (x
                                                     ,f
                                                     ,suc(m)
                                                     ,n)
                                                    ,f
                                                     (prim_rec_fun
                                                      (x
                                                      ,f
                                                      ,m
                                                      ,pre(n))
                                                     ,n)))))))
  by HOL "hprim_rec_eqn"
END
```