```
mod_self  THM

⊢  ∀n:ℕ+ . (n mod n) = 0
  by Auto
     THEN
     (Inst
      Thm* ∀a:ℤ, n:ℕ+ , q:ℤ, r:ℕ.
           a = q·n+r ⇒ r<n ⇒ q = (a ÷↓ n) & r = (a mod n)
      {div_floor_mod_unique}
      [n;n;1;0])
END
```