```
exp_reduce1  THM

⊢  ∀a,b,c:ℕ. (a·b)↑c = a↑c·b↑c  by Autoℕ
|
1. a : ℕ
2. b : ℕ
3. c : ℕ
⊢  (a·b)↑c = a↑c·b↑c
  by Rewrite by
     Thm*  ∀a,b:ℤ, f,g:({a..b⁻}→ℤ).
           (Π i:{a..b⁻}. f(i))·(Π i:{a..b⁻}. g(i))
           =
           (Π i:{a..b⁻}. f(i)·g(i))
     {mul_via_intseg_factors}
END
```