```
finite_indep_sum_card  THM

⊢  ∀a,b:ℕ. (A ∼ ℕa) ⇒ (B ∼ ℕb) ⇒ ((A×B) ∼ ℕ(a·b))  by Auto
|
1. A : Type
2. B : Type
3. a : ℕ
4. b : ℕ
5. A ∼ ℕa
6. B ∼ ℕb
⊢  (A×B) ∼ ℕ(a·b)
| by Rewrite by Thm*  ∀a,b:ℕ. (ℕa×ℕb) ∼ ℕ(a·b)    {nsub_mul_rw}
|
⊢  (A×B) ∼ (ℕa×ℕb)  by Rewrite by A ∼ ℕa
|
⊢  (ℕa×B) ∼ (ℕa×ℕb)  by Rewrite by B ∼ ℕb
END
```