```
uncurry_curry_inverse  THM

⊢  ∀T:Type{i}, U:Type{j}, V:Type{k}, f:(T→U→V). f = curry uncurry f
| by RA (Analyze 0)
|
1. T : Type
2. U : Type
3. V : Type
4. f : T→U→V
⊢  f = curry uncurry f  by Unfolds [‘curry‘;‘uncurry‘] 0
|
⊢  f = (λx,y. (λx.x/l,r. f(l,r))(<x,y>))  by Reduce 0
|
⊢  f = (λx,y. f(x,y))  by ExtWith [‘a’] [T→U→V;T→U→V]
|
5. a : T
⊢  f(a) = (λx,y. f(x,y))(a)  by ExtWith [‘b’] [U→V] THEN Reduce 0
END
```