```
components_divide_iter_mul  THM

⊢  ∀a,b:ℤ, e:({a..b⁻}→ℤ), i:{a..b⁻}. e(i) | (Π i:{a..b⁻}. e(i))
| by Auto
|
1. a : ℤ
2. b : ℤ
3. e : {a..b⁻}→ℤ
4. i : {a..b⁻}
⊢  e(i) | (Π i:{a..b⁻}. e(i))
| by Rewrite by
|    Thm*  ∀a,c,b:ℤ, e:({a..b⁻}→ℤ).
|          a≤c
|          ⇒
|          c<b
|          ⇒
|          (Π i:{a..b⁻}. e(i))
|          =
|          (Π i:{a..c⁻}. e(i))•e(c)•(Π i:{c+1..b⁻}. e(i))
|    {mul_via_intseg_split_pluck}
|    Using:[c:= i]
|
⊢  e(i) | (Π i:{a..i⁻}. e(i))•e(i)•(Π i:{i+1..b⁻}. e(i))
  by Witness: (Π i:{a..i⁻}. e(i))•(Π i:{i+1..b⁻}. e(i))
END
```