```
eq_rat_sym  THM

⊢  ∀x,y:ℚ. x =q y ⇒ y =q x  by UnivCD
|
1. x : ℚ
2. y : ℚ
3. x =q y
⊢  y =q x  by OnClauses [0;3] (Unfold ‘eq_rat‘)
|
3. x.num·y.den=₂y.num·x.den
⊢  y.num·x.den=₂x.num·y.den  by Analyze 2 THEN Analyze 1
|
1. x1 : ℤ
2. x2 : ℕ+
3. y1 : ℤ
4. y2 : ℕ+
5. <x1,x2>.num·<y1,y2>.den=₂<y1,y2>.num·<x1,x2>.den
⊢  <y1,y2>.num·<x1,x2>.den=₂<x1,x2>.num·<y1,y2>.den
| by OnClauses [0;5] (Unfolds [‘qdenom‘;‘qnumer‘])
|    THEN
|    OnClauses [0;5] (RWH (pi1_evalC ORELSEC pi2_evalC))
|
5. x1·y2=₂y1·x2
⊢  y1·x2=₂x1·y2
| by OnMClauses [0;5]
|    (RW
|     (LemmaC Thm* ∀x,y:ℤ. x=₂y ⟺ x = y    {assert_of_eq_int_rw}))
|
5. x1·y2 = y1·x2
⊢  y1·x2 = x1·y2  by Auto
END
```