```
qadd_assoc  THM

⊢  ∀p,q,r:ℚ.  p +q q +q r =q p +q q +q r  by UnivCD
|
1. p : ℚ
2. q : ℚ
3. r : ℚ
⊢  p +q q +q r =q p +q q +q r  by Unfold ‘eq_rat‘ 0
|
⊢  p +q q +q r.num·p +q q +q r.den=₂p +q q +q r.num·p +q q +q r.den
| by RW (LemmaC Thm* ∀x,y:ℤ. x=₂y ⟺ x = y    {assert_of_eq_int_rw})
|    0
|
⊢  p +q q +q r.num·p +q q +q r.den = p +q q +q r.num·p +q q +q r.den
| by OnHyps [3;2;1] RatHD THEN Unfold ‘qadd‘ 0
|    THEN
|    RW (DepthC qnd_evalC) 0
|
1. p1 : ℤ
2. p2 : ℕ+
3. q1 : ℤ
4. q2 : ℕ+
5. r1 : ℤ
6. r2 : ℕ+
⊢  ((p1·q2+q1·p2)·r2+r1·p2·q2)·p2·q2·r2
   =
   (p1·q2·r2+(q1·r2+r1·q2)·p2)·p2·q2·r2  by Auto
END
```