```
qsubx_repst  THM

⊢  ∀t,r,t',r':Term. t reps t' & r reps r' ⇒ SUBX(t; r) reps t'/r'
| by GenUnivCD
|
1. t : Term
2. r : Term
3. t' : Term
4. r' : Term
5. t reps t'
6. r reps r'
⊢  SUBX(t; r) reps t'/r'  by OnHyps [0;5;6] (Unfold `repst`)
|
5. t reps t' ∈ Term
6. r reps r' ∈ Term
⊢  SUBX(t; r) reps t'/r' ∈ Term  by OnHyps [0;5;6] (Unfold `reps`)
|
5. t IN Term & ref(t) = t'
6. r IN Term & ref(r) = r'
⊢  SUBX(t; r) IN Term & ref(SUBX(t; r)) = t'/r'
| by OnHyps [6;5;0] Analyze
|
|\
| 5. t IN Term
| 6. ref(t) = t'
| 7. r IN Term
| 8. ref(r) = r'
| ⊢  SUBX(t; r) IN Term
|   by BackThru
|      Thm* ∀t,r:Term. t IN Term & r IN Term ⇒ SUBX(t; r) IN Term
|      {qsubx_termin}
|
.\
. 5. t IN Term
. 6. ref(t) = t'
. 7. r IN Term
. 8. ref(r) = r'
. 9. SUBX(t; r) IN Term
. ⊢  ref(SUBX(t; r)) = t'/r'  by ComputeOpid `down` 0
. |
. ⊢  ref(t)/ref(r) = t'/r'  by HypSubst 6 0 THEN HypSubst 8 0
END
```