

## lib/main/transitive-closure\_unittest.ath

```
1 load "transitive-closure.ath"
2
3 open Transitive-Closure
4
5 assert (theory-axioms Transitive-Closure.theory)
6
7 define Less1 := no-renaming
8
9 (!prove-property R*-sum Less1 Transitive-Closure.theory)
10
11 (!prove-property R+-lemma Less1 Transitive-Closure.theory)
12
13 (!prove-property R*-lemma Less1 Transitive-Closure.theory)
14
15 (!prove-property RR+-inclusion Less1 Transitive-Closure.theory)
16
17 (!prove-property R+R*-inclusion Less1 Transitive-Closure.theory)
18
19 (!prove-property R*-Reflexive Less1 Transitive-Closure.theory)
20
21 (!prove-property TC-Transitivity Less1 Transitive-Closure.theory)
22
23 (!prove-property TC-Transitivity1 Less1 Transitive-Closure.theory)
24
25 (!prove-property TC-Transitivity2 Less1 Transitive-Closure.theory)
26
27 (!prove-property TC-Transitivity3 Less1 Transitive-Closure.theory)
```