```
set_inc_wrt_imp_sq  THM

⊢  (∀x:A. ↓B(x) ⇒ ↓B'(x)) ⇒ {x:A| B(x) } ⊆ {x:A| B'(x) }  by UnivCD
|
1. A : Type
2. B : A→Prop
3. B' : A→Prop
4. ∀x:A. ↓B(x) ⇒ ↓B'(x)
⊢  {x:A| B(x) } ⊆ {x:A| B'(x) }
| by {x:A| ↓B(x) } ⊆ {x:A| ↓B'(x) }  Asserted
|
5. {x:A| ↓B(x) } ⊆ {x:A| ↓B'(x) }
⊢  {x:A| B(x) } ⊆ {x:A| B'(x) }  by SimilarTo: Hyp:-1
|
|\
| .....wf .....
| 5. x : {x:A| B(x) }
| ⊢  x ∈ {x:A| ↓B(x) }  by Analyze
| |
| 6. x1 : A
| 7. B(x1)
| ⊢  ↓B(x1)  by Analyze
|
.\
. 5. x : {x:A| B(x) }
. 6. x ∈ {x:A| ↓B'(x) }
. ⊢  x ∈ {x:A| B'(x) }
. | by Use:[A | B | x]
. |    Inst: Thm*  ∀x:{x:A| B(x) }. ↓B(x)    {subset_to_squash}
. |
. 7. ↓B(x)
. ⊢  x ∈ {x:A| B'(x) }
. | by BackThru:
. |    Thm*  ∀x:A. ↓B(x) ⇒ x ∈ {x:A| B(x) }    {squash_to_subset}
. |
. ⊢  ↓B'(x)  by BackThru: Hyp:4
END
```