```
eq_mem_is_ax  THM

⊢  ∀A:Type, a,a':A, x:(a = a'). x = *  by Auto
|
1. A : Type
2. a : A
3. a' : A
4. x : a = a'
⊢  x = *
| by Refine
|    RULE  H, x:(p = q ∈ A), J  ⊢ C ext t
|
|            BY equalityElimination #$i
|
|            H, x:(p = q ∈ A), J[*/x] ⊢ C[*/x] ext t
|    {equalityElimination}
|    RuleArgs:[4:n]
|
⊢  * = * ∈ (a = a')
| by Refine
|    RULE  H  ⊢ * = * ∈ (a1 = a2 ∈ A)
|
|            BY axiomEquality ;
|
|            H ⊢ a1 = a2 ∈ A
|    {axiomEquality}
|    []
|
⊢  a = a'  by Hypothesis
END
```