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inj_point_deletion  THM

⊢  ∀A,B:Type, f:(A inj→ B), a:A. f ∈ {x:A| ¬x = a }→{y:B| ¬y = f(a) }
| by Auto
|
1. A : Type
2. B : Type
3. f : A inj→ B
4. a : A
⊢  f ∈ {x:A| ¬x = a }→{y:B| ¬y = f(a) }  by Analyze-2
|
3. f : A→B
4. Inj(A; B; f)
5. a : A
⊢  f ∈ {x:A| ¬x = a }→{y:B| ¬y = f(a) }
| by FunExtensionality THEN Analyze-1 THEN Analyze
|
.....set predicate .....
6. x : A
7. ¬x = a
⊢  ¬f(x) = f(a)  by SimilarTo: Hyp:-1
|
7. f(x) = f(a)
⊢  x = a  by BackThru: Inj(A; B; f)
END
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