```
natprime_nondivs  THM

⊢  ∀x:ℕ. prime(x) ⇒ (∀i:{2..x⁻}. ¬i | x)
| by Autoℕ
|    THEN
|    Rewrite2 by
|    Thm*  ∀x:ℕ. prime(x) ⟺ 2≤x & ¬(∃i:{2..x⁻}. i | x)
|    {prime_nat} ...ℕ
|
1. x : ℕ
2. prime(x)
3. i : {2..x⁻}
4. 2≤x
5. ¬(∃i:{2..x⁻}. i | x)
⊢  ¬i | x  by SimilarTo Hyp:-1 ...ℕ
|
5. i | x
⊢  ∃i:{2..x⁻}. i | x  by Witness: i ...ℕ
END
```