```
divides_anti_sym  THM

⊢  ∀a,b:ℤ. a | b ⇒ b | a ⇒ a = ± b  by UnivCD
|
1. a : ℤ
2. b : ℤ
3. a | b
4. b | a
⊢  a = ± b
| by (Rewrite
|      (RevLemmaC
|       Thm* ∀a,b:ℤ. |a| | |b| ⟺ a | b    {divides_of_absvals})
|      3)
|     THEN
|     (Rewrite
|      (RevLemmaC
|       Thm* ∀a,b:ℤ. |a| | |b| ⟺ a | b    {divides_of_absvals})
|      4)
|
3. |a| | |b|
4. |b| | |a|
⊢  a = ± b
| by Rewrite
|     (RevLemmaC Thm* ∀x,y:ℤ. |x| = |y| ⟺ x = ± y    {absval_eq})
|     0
|
⊢  |a| = |b|
| by AssertLemma
|     Thm* ∀a,b:ℕ. a | b ⇒ b | a ⇒ a = b    {divides_anti_sym_n}
|     []
|
5. ∀a,b:ℕ. a | b ⇒ b | a ⇒ a = b
⊢  |a| = |b|
| by Rewrite
|     (SweepUpC
|      (RevLemmaC
|       Thm* ∀P:(ℤ→Prop). (∀x:ℤ. P(|x|)) ⟺ (∀x:ℕ. P(x))
|       {absval_elim}))
|     5
|
5. ∀a,b:ℤ. |a| | |b| ⇒ |b| | |a| ⇒ |a| = |b|
⊢  |a| = |b|  by BackThru 5
END
```