```
assoc_reln  THM

⊢  ∀a,b:ℤ. a | b & b | a ⟺ a = ± b  by GenUnivCD
|
|\
| 1. a : ℤ
| 2. b : ℤ
| 3. a | b & b | a
| ⊢  a = ± b
|   by BackThru
|      Thm* ∀a,b:ℤ. a | b ⇒ b | a ⇒ a = ± b    {divides_anti_sym}
|
|\
| 1. a : ℤ
| 2. b : ℤ
| 3. a = ± b
| ⊢  a | b  by Analyze 3
| |
| |\
| | 3. a = b
| | ⊢  a | b  by Witness 1
| |
| .\
| . 3. a = -b
| . ⊢  a | b  by Witness -1
|
.\
. 1. a : ℤ
. 2. b : ℤ
. 3. a = ± b
. ⊢  b | a  by Analyze 3
. |
. |\
. | 3. a = b
. | ⊢  b | a  by Witness 1
. |
. .\
. . 3. a = -b
. . ⊢  b | a  by Witness -1
END
```