```
gcd_is_gcd  THM

⊢  ∀a,b,c:ℤ. c | a ⇒ c | b ⇒ c | gcd(a;b)  by UnivCD
|
1. a : ℤ
2. b : ℤ
3. c : ℤ
4. c | a
5. c | b
⊢  c | gcd(a;b)  by FunElim (gcd(a;b) = y)
|
6. y : ℤ
7. GCD(a;b;y)
⊢  c | y  by Unfold ‘gcd_p‘ -1 THEN HypBackchain
END
```