```
gcd_p_zero_rel  THM

⊢  ∀a,b:ℤ. GCD(a;0;b) ⇒ a = b ∨ a = -b
| by RepD THEN (Unfold ‘gcd_p‘ -1) THEN GenRepD
|
1. a : ℤ
2. b : ℤ
3. b | a
4. b | 0
5. ∀z:ℤ. z | a & z | 0 ⇒ z | b
⊢  a = b ∨ a = -b  by InstHyp [a] 5
|
|\
| ⊢  a | a  by BackThru Thm* ∀a:ℤ. a | a    {divides_reflexivity}
|
|\
| ⊢  a | 0  by BackThru Thm* ∀b:ℤ. b | 0    {any_divs_zero}
|
.\
. 6. a | b
. ⊢  a = b ∨ a = -b
.   by Fold ‘pm_equal‘ 0
.      THEN
.      BackThru
.      Thm* ∀a,b:ℤ. a | b ⇒ b | a ⇒ a = ± b    {divides_anti_sym}
END
```