```
coprime_bezout_id  THM

⊢  ∀a,b:ℤ. CoPrime(a,b) ⟺ (∃x,y:ℤ. a•x+b•y = 1)  by GenUnivCD
|
|\
| 1. a : ℤ
| 2. b : ℤ
| 3. CoPrime(a,b)
| ⊢  ∃x,y:ℤ. a•x+b•y = 1
|   by BackThru
|      Thm* ∀a,b:ℤ. CoPrime(a,b) ⇒ (∃x,y:ℤ. a•x+b•y = 1)
|      {coprime_bezout_id1}
|
.\
. 1. a : ℤ
. 2. b : ℤ
. 3. ∃x,y:ℤ. a•x+b•y = 1
. ⊢  CoPrime(a,b)
.   by BackThru
.      Thm* ∀a,b:ℤ. (∃x,y:ℤ. a•x+b•y = 1) ⇒ CoPrime(a,b)
.      {coprime_bezout_id2}
END
```