```
prod_zero_iff_factor_zero  THM

⊢  ∀a,b:ℤ. a•b = 0 ⟺ a = 0 ∨ b = 0  by UnivCD
|
1. a : ℤ
2. b : ℤ
⊢  a•b = 0 ⟺ a = 0 ∨ b = 0  by Auto
|
|\
| 3. a•b = 0
| ⊢  a = 0 ∨ b = 0
|   by BackThru:
|      Thm*  ∀a,b:ℤ. a•b = 0 ⇒ a = 0 ∨ b = 0    {int_entire}
|
.\
. 3. a = 0 ∨ b = 0
. ⊢  a•b = 0
.   by BackThru:
.      Thm*  ∀a,b:ℤ. a = 0 ∨ b = 0 ⇒ a•b = 0    {zero_ann_a}
END
```