```
divides_preorder  THM

⊢  Preorder(ℤ;x,y.x | y)
| by RepUnfolds [‘preorder‘;‘refl‘;‘trans‘] 0 THEN GenRepD
|
|\
| 1. a : ℤ
| ⊢  a | a  by BackThru Thm* ∀a:ℤ. a | a    {divides_reflexivity}
|
.\
. 1. a : ℤ
. 2. b : ℤ
. 3. c : ℤ
. 4. a | b
. 5. b | c
. ⊢  a | c
.   by FwdThru
.      Thm* ∀a,b,c:ℤ. a | b ⇒ b | c ⇒ a | c
.      {divides_transitivity}
.      [-1;-2]
END
```