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┆  $\forall z : \mathbb{Z}. \text{GCD}(z; 0; z)$ 
|
BY (D 0 THENA Auto)
|
1.  $z : \mathbb{Z}$ 
┆  $\text{GCD}(z; 0; z)$ 
|
BY Unfold 'gcd_p' 0
|
┆  $(z \mid z) \wedge (z \mid 0) \wedge (\forall z@0 : \mathbb{Z}. ((z@0 \mid z) \wedge (z@0 \mid 0)) \Rightarrow (z@0 \mid z))$ 
|
BY D 0
| \
| ┆  $z \mid z$ 
| |
1 BY Unfold 'divides' 0
| |
| ┆  $\exists c : \mathbb{Z}. (z = (z * c))$ 
| |
1 BY (InstConcl [1]. THENA Auto)
| |
| ┆  $z = (z * 1)$ 
| |
1 BY Auto
| \
┆  $(z \mid 0) \wedge (\forall z@0 : \mathbb{Z}. ((z@0 \mid z) \wedge (z@0 \mid 0)) \Rightarrow (z@0 \mid z))$ 
|
BY D 0
| \
| ┆  $z \mid 0$ 
| |
1 BY Unfold 'divides' 0
| |
| ┆  $\exists c : \mathbb{Z}. (0 = (z * c))$ 
| |
1 BY (InstConcl [0]. THENA Auto)
| |
| ┆  $0 = (z * 0)$ 
| |
1 BY Auto
| \
┆  $\forall z@0 : \mathbb{Z}. ((z@0 \mid z) \wedge (z@0 \mid 0)) \Rightarrow (z@0 \mid z)$ 
|
BY (D 0 THENA Auto)
|
2.  $z@0 : \mathbb{Z}$ 
┆  $((z@0 \mid z) \wedge (z@0 \mid 0)) \Rightarrow (z@0 \mid z)$ 
|
BY (D 0 THENA Auto)
|
3.  $(z@0 \mid z) \wedge (z@0 \mid 0)$ 
┆  $z@0 \mid z$ 
|
BY Auto

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