```
mul_preserves_lt  THM

⊢  ∀a,b:ℤ, n:ℕ+ . a<b ⇒ n•a<n•b  by Auto
|
1. a : ℤ
2. b : ℤ
3. n : ℕ+
4. a<b
⊢  n•a<n•b
| by Inst: Thm* ∀a,b:ℤ, n:ℕ. a≤b ⇒ n•a≤n•b    {mul_preserves_le}
|    Using:[a | b-1 | n]
|
5. n•a≤n•(b-1)
⊢  n•a<n•b  by Auto
END
```