```
eqmod_transitivity  THM

⊢  ∀m,a,b,c:ℤ. (a = b mod m) ⇒ (b = c mod m) ⇒ (a = c mod m)
| by Unfold ‘eqmod‘ 0 THEN UnivCD
|
1. m : ℤ
2. a : ℤ
3. b : ℤ
4. c : ℤ
5. m | a-b
6. m | b-c
⊢  m | a-c
  by (FwdThru
      Thm* ∀a,b1,b2:ℤ. a | b1 ⇒ a | b2 ⇒ a | b1+b2
      {divisor_of_sum}
      [5;6])
     THEN
     (OnMClauses [0;-1] ArithSimp)
END
```