```
excluded_middle  THM

⊢  XM  by Unfold ‘xmiddle‘ 0 THEN StrongAuto
|
.....decidable? .....
1. P : Prop
⊢  Dec(P)  by Unfold ‘decidable‘ 0 THEN StrongAuto
|
1. P : Prop
⊢  P ∨ ¬P  by UnAb [‘false‘;‘not‘;‘or‘] THEN UseWitness (lem(P))
END
```