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-- ----- PROOF -----
-- Length of proof is 4 . Level of proof is 3 .
-- 9 [ ]  $\neg(c4 \cap c2) \circ (c3 \cap c1) \subseteq c2 \circ c1$ 
-- 11 [ ]  $x \cup y = y \cup x$ 
-- 17 [ ]  $x \cap y = \overline{\overline{x} \cup \overline{y}}$ 
-- 19 , 18 [ copy , 17 , flip . 1 ]  $\overline{\overline{x} \cup \overline{y}} = x \cap y$ 
-- 24 [ ]  $(x \cap y) \circ (z \cap u) \subseteq x \circ z$ 
-- 178 [ para_into , 18 . 1 . 1 . 1 , 11 . 1 . 1 , demod , 19 ]  $x \cap y = y \cap x$ 
-- 207 [ para_from , 178 . 1 . 1 , 9 . 1 . 1 . 2 ]  $\neg(c4 \cap c2) \circ (c1 \cap c3) \subseteq c2 \circ c1$ 
-- 242 [ para_into , 24 . 1 . 1 . 1 , 178 . 1 . 1 ]  $(x \cap y) \circ (z \cap u) \subseteq y \circ z$ 
-- 243 [ binary , 242 . 1 , 207 . 1 ]  $F$ 
-- ----- end of proof -----
--
--
-- Search stopped by max_proofs option .
--
-- = = = = = end of search = = = = =
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-- ----- statistics -----  
-- clauses given 21  
-- clauses generated 338  
-- clauses kept 194  
-- clauses forward subsumed 197  
-- clauses back subsumed 0  
-- Kbytes malloced 255  
--  
-- ----- times ( seconds ) -----  
-- user CPU time 0 . 24 ( 0 hr , 0 min , 0 sec )  
-- system CPU time 0 . 0 ( 0 hr , 0 min , 0 sec )  
-- wall - clock time 0 ( 0 hr , 0 min , 0 sec )
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