

1	$M1(x1) \vee \neg H(x1)$
2	$M1(x2) \vee \neg B1(x2)$
3	$C(x3) \vee \neg M1(x3) \vee \neg E(x3)$
4	$C(x4) \vee \neg M1(x4) \vee \neg S1(x4) \vee \neg S2(x4)$
5	$L(x5) \vee \neg C(x5) \vee \neg B2(x5) \vee \neg B3(x5)$
6	$F(x6) \vee \neg C(x6) \vee \neg B2(x6) \vee \neg M2(x6)$
7	$H(a)$
8	$B2(a)$
9	$B3(a)$
10	$E(a)$

To prove the validity of $L(a)$, put $\neg L(a)$ into a clause set and check whether inference leads to inconsistencies.

Step			
1	C1	$\neg L(a)$	
	C2	$L(x5) \vee \neg C(x5) \vee \neg B2(x5) \vee \neg B3(x5)$	
	R	$\neg C(a) \vee \neg B2(a) \vee \neg B3(a)$	
2	C1	$\neg C(a) \vee \neg B2(a) \vee \neg B3(a)$	
	C2	$C(x3) \vee \neg M1(x3) \vee \neg E(x3)$	
	R	$\neg B2(a) \vee \neg B3(a) \vee \neg M1(a) \vee \neg E(a)$	
3	C1	$\neg B2(a) \vee \neg B3(a) \vee \neg M1(a) \vee \neg E(a)$	
	C2	$B2(a)$	
	R	$\neg B3(a) \vee \neg M1(a) \vee \neg E(a)$	
4	C1	$\neg B3(a) \vee \neg M1(a) \vee \neg E(a)$	
	C2	$B3(a)$	
	R	$\neg M1(a) \vee \neg E(a)$	
5	C1	$\neg M1(a) \vee \neg E(a)$	
	C2	$M1(x1) \vee \neg H(x1)$	
	R	$\neg E(a) \vee \neg H(a)$	
6	C1	$\neg E(a) \vee \neg H(a)$	
	C2	$E(a)$	
	R	$\neg H(a)$	
7	C1	$\neg H(a)$	
	C2	$H(a)$	
	R	Φ	END

Since a contradiction has been derived, $L(a)$ cannot be denied, and $L(a)$ always holds.