9. e  $\wedge$  O<sup>2</sup>(k  $\wedge$  g)  $\rightarrow$  O<sup>2</sup>m If at time T, e is TRUE and at time T+2 both k and g are TRUE, then at time T+2 m must TRUE 10. (e  $\wedge$  g)  $\rightarrow$  O<sup>3</sup>c If at time T, e and g are TRUE, then at time T+3 c must TRUE

If at time 
$$T$$
,  $k$  and  $m$  are TRUE, then at time  $T+1h$  must TRUE

12. 
$$(e \wedge O^2k) \rightarrow O^3b$$
  
If at time  $T$ ,  $e$  is TRUE and at time  $T+2$   $k$  is TRUE, then at time  $T+3$   $b$  must be TRUE

9. e  $\wedge$  O<sup>2</sup>(k  $\wedge$  g)  $\rightarrow$  O<sup>2</sup>m

If at time T, e is TRUE and at time T+2 both k and g are TRUE, then at time T+2 m must TRUE

m10. (e  $\land$  g)  $\rightarrow$  O<sup>3</sup>c

If at time T, e and g are TRUE, then at time T+3 c must TRUE

If at time T, k and m are TRUE, then at time T+1 h must TRUE

11. k  $\wedge$  m  $\rightarrow$  Oh

k h m

12. 
$$(e \wedge O^2k) \rightarrow O^3b$$
  
If at time  $T$ ,  $e$  is TRUE and at time  $T$ +2  $k$  is TRUE, then at time  $T$ +3  $b$  must TRUE

**→** → → → → →

b