



1	$\vdash f \rightarrow (g \rightarrow (f \wedge g))$	A1	✓	✓	
2	$\vdash K1 f \rightarrow K1 (g \rightarrow (f \wedge g))$	KD	✓	✓	1
3	$\vdash K1 (g \rightarrow (f \wedge g)) \rightarrow (K1 g \rightarrow K1 (f \wedge g))$	A2'	✓	✓	
4	$\vdash K1 f \rightarrow (K1 g \rightarrow K1 (f \wedge g))$	HS	✓	✓	2, 3
5	$\vdash (K1 f \rightarrow (K1 g \rightarrow K1 (f \wedge g))) \rightarrow ((K1 f \wedge K1 g) \rightarrow K1$	A1	✓	✓	
6	$\vdash (K1 f \wedge K1 g) \rightarrow K1 (f \wedge g)$	R1	✓	✓	4, 5

System K Agents (m)

Goal
(K1f&K1g)->K1(f&g) ✓

Syntax Overview ✓