

1	$H_1: \exists x (P(x) \wedge q(x))$	
2	$H_2: \forall x (q(x) \rightarrow r(x))$	
3	$C: \exists x (P(x) \wedge r(x))$	
4	$P(a) \wedge q(a)$	Existential Instantiation from 1
5	$q(a) \rightarrow r(a)$	Universal Instantiation from 2
6	$q(a)$	Simplification from 4
7	$r(a)$	MPP from 5 & 6
8	$P(a)$	Simplification from 4
9	$P(a) \wedge r(a)$	Conjunction from 7 & 8
10	$\exists (P(x) \wedge r(x))$	Existential Generalization