

1:	$P \vee \neg P, \forall x. P \rightarrow Q(x), \forall x. \neg P \rightarrow Q(x)$	assumptions
2:	$P \rightarrow Q(m)$	assumption
3:	$\neg P \rightarrow Q(m)$	assumption
4:	P	assumption
5:	P	hyp 4
6:	$Q(m)$	assumption
7:	$Q(m)$	hyp 6
8:	$Q(m)$	$\rightarrow \vdash$ 2,5,6-7
9:	$\neg P$	assumption
10:	\dots	
10:	$Q(m)$	
11:	$Q(m)$	$\vee \vdash$ 1.1,4-8,9-10
12:	$Q(m)$	$\forall \vdash$ 1.3,3-11
13:	$Q(m)$	$\forall \vdash$ 1.2,2-12
14:	$\forall x. Q(x)$	$\vdash \forall$ 13

Provided:

x NOTIN P