

1	$\neg \forall x \phi$	premise
2	$\neg \exists x \neg \phi$	assumption
3	x_0	
4	$\neg \phi[x_0/x]$	assumption
5	$\exists x \neg \phi$	$\exists x i 4$
6	$\perp$	$\neg e 5, 2$
7	$\phi[x_0/x]$	PBC 4–6
8	$\forall x \phi$	$\forall x i 3-7$
9	$\perp$	$\neg e 8, 1$
10	$\exists x \neg \phi$	PBC 2–9