

1	$\neg \forall x P(x)$	premise
2	$\neg \exists x \neg P(x)$	assumption
3	x_0	
4	$\neg P(x_0)$	assumption
5	$\exists x \neg P(x)$	$\exists$ i 4
6	$\perp$	$\neg$ e 5, 2
7	$P(x_0)$	PBC 4–6
8	$\forall x P(x)$	$\forall$ i 3–7
9	$\perp$	$\neg$ e 8, 1
10	$\exists x \neg P(x)$	PBC 2–9