

1. $\forall x (\text{Cube}(x) \rightarrow \text{Small}(x))$	
2. $\exists x \text{Cube}(x)$	
3. $\boxed{a} \text{Cube}(a)$	
4. $\text{Cube}(a) \rightarrow \text{Small}(a)$	\forall Elim: 1
5. $\text{Small}(a)$	\rightarrow Elim: 4, 3
6. $\exists x \text{Small}(x)$	\exists Intro: 5
7. $\exists x \text{Small}(x)$	\exists Elim: 2, 3–6
8. $\exists x \text{Cube}(x) \rightarrow \exists x \text{Small}(x)$	\rightarrow Intro: 2–7
9. $(\forall x (\text{Cube}(x) \rightarrow \text{Small}(x)) \rightarrow$ $\quad (\exists x \text{Cube}(x) \rightarrow \exists x \text{Small}(x)))$	\rightarrow Intro: 1–8