

$$(7) \quad \varphi(x) \Rightarrow \forall x \varphi(x) \vdash \forall x \varphi(x) \Rightarrow (\neg \varphi(x) \Rightarrow \varphi(y))$$

$$\varphi(x) \Rightarrow \forall x \varphi(x) \vdash \varphi(x) \Rightarrow \forall x \varphi(x)$$

$$1, \vdash \forall x \varphi(x) \Rightarrow \varphi(y)$$

$$2, \varphi(x) \Rightarrow \forall x \varphi(x) \vdash \varphi(x) \Rightarrow \varphi(y)$$

$$3, \vdash \forall x \varphi(x) \Rightarrow \varphi(x)$$

$$4, \varphi(x) \Rightarrow \forall x \varphi(x) \vdash \forall x \varphi(x) \Rightarrow \varphi(y)$$

$$5, \vdash \varphi(y) \Rightarrow (\neg \varphi(x) \Rightarrow \varphi(y))$$

$$6, \varphi(x) \Rightarrow \forall x \varphi(x) \vdash \forall x \varphi(x) \Rightarrow (\neg \varphi(x) \Rightarrow \varphi(y))$$