(a) 
$$\vdash \forall x \forall y \varphi(x, y)$$
  
(b)  $\vdash \forall x \forall y \varphi(x, y) \Rightarrow \forall y \varphi(x, y)$   
(c)  $\vdash \forall y \varphi(x, y)$   
(d)  $\vdash \forall y \varphi(x, y) \Rightarrow \varphi(x, x)$   
(e)  $\vdash \varphi(x, x)$   
(f)  $\vdash \forall x \varphi(x, x)$   
(g)  $\forall x \forall y \varphi(x, y) \vdash \forall x \varphi(x, x)$   
(h)  $\vdash \forall x \forall y \varphi(x, y) \Rightarrow \forall x \varphi(x, x)$