

$$\frac{(Ga \wedge Ha)}{\therefore (\exists x Gx \wedge \exists x Hx)}$$

$$\frac{Ga}{\therefore \exists x Gx}$$

$$\frac{(Ga \vee Ha)}{\therefore (\exists x Gx \vee \exists x Hx)}$$

$$\frac{(\forall x Gx \vee \forall x Hx)}{\therefore (Ga \vee Ha)}$$

$$\frac{\forall x Gx}{\therefore Ga}$$

$$\frac{(\forall x Gx \wedge \forall x Hx)}{\therefore (Ga \wedge Ha)}$$

$$\frac{\exists x (Gx \vee Hx)}{\therefore (\exists x Gx \vee \exists x Hx)}$$

$$\frac{(\exists x Gx \vee \exists x Hx)}{\therefore \exists x (Gx \vee Hx)}$$

$$\frac{(\forall x Gx \wedge \forall x Hx)}{\therefore \forall x (Gx \wedge Hx)}$$

$$\frac{\forall x (Gx \wedge Hx)}{\therefore (\forall x Gx \wedge \forall x Hx)}$$