

$$\forall x. \forall y. (h(x) \wedge d(y) \Rightarrow f(x, y))$$

$$\exists y. (g(y) \wedge \forall z. (r(z) \Rightarrow f(y, z)))$$

$$\forall y. (g(y) \Rightarrow d(y))$$

$$\forall x. \forall y. \forall z. (f(x, y) \wedge f(y, z) \Rightarrow f(x, z))$$

$$\neg \forall x. \forall y. (h(x) \wedge r(y) \Rightarrow f(x, y))$$