

$$(\exists y)(x)Lxy \quad \checkmark$$

$$\sim(x)(\exists y)Lxy \quad \checkmark$$

$$(\exists x)\sim(\exists y)Lxy \quad \checkmark$$

$$(\exists x)(y)\sim Lxy \quad \checkmark$$

$$(x)Lxa$$

$$(y)\sim Lby$$

$$Laa$$

$$Lba$$

$$\sim Lba$$

$$\sim Lbb$$

Truth Trees in
Predicate QL

#4

valid