

$$(\exists x) R_x \vee (\exists x) S_x$$

$$(x) \sim R_x$$

$$\sim \sim (x) \sim S_x \quad \checkmark$$

$$(x) \sim S_x$$

$$(\exists x) R_x \quad \checkmark$$

$$R_a$$

$$\sim R_a$$

X

$$\exists x S_x \quad \checkmark$$

$$\sim R_a$$

$$S_b$$

$$\sim R_b$$

$$\sim S_a$$

$$\sim S_b$$

X

Valid