

```
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```





$$\frac{\frac{F}{\overline{S}}F \approx SS}{(\vee D)\sigma L \vee C \neg L' \vee D \text{ where } L\sigma C\sigma \neg L'\sigma D\sigma\sigma = (L, L')}$$

$$\Box (L \vee C)\sigma(\neg L' \vee D)\sigma L \vee C \neg L' \vee D$$

$$(L \vee C) = L(\neg L' \vee D) = \neg L'\sigma = (L, L')$$

$$\vdash \Box [y \mapsto \neg(y)()](x) \vee \neg(y)\neg()_0 \bot = \{(\bot) \vee \neg(\bot), \neg(), ()\} * \textit{satisfiable} [x \mapsto () \vee \neg(y)(x) \vee \neg(y))\neg()S_1 \bot \{\neg(), (), () \vee \neg(\bot)\}$$



$$\{\} \exists \theta C \theta \subseteq D * C \text{subsumes } D S \text{satisfiable} \iff (S \setminus D) \text{satisfiable} \theta \text{is proper}, S \perp \text{satisfiable} \iff (S \setminus D) \perp \text{satisfiable} \theta \text{isr}$$



$$\begin{aligned}
&\{ \cdot \\
&\neg((,)), (x,) = \\
&x\} \\
&\neq \vee \\
&\neg() \vee \\
&(y)^* \\
&, congruence \\
&\neq \\
&\hat{s} \\
&x \neq \\
&y \vee \\
&y = \\
&>xs \neq \\
&t \\
&>x \neq \\
&>y \vee \\
&>y \neq \\
&>\hat{x} = \\
&>zs \neq \\
&t \\
&>x_1 \neq \\
&>y_1 \vee \\
&>x_2 \neq \\
&>y_2 \vee \\
&(x_1, x_2) = (y_1, y_2)(s_1, s_2) \neq \\
&(t_1, t_2) \\
&>x \neq \\
&>y \vee \\
&\neg(x) \vee \\
&(y)(s) \\
&>x \neq \\
&>y \vee \\
&\neg(x) \vee \\
&(y)\neg(s)
\end{aligned}$$



