34.   This exercise is on the systems CDV and AO, defined in Figures 15.2 and
        15.1.
        Check the following equalities

$$
\begin{aligned}
[\![\lambda x.y]\!]_{\rho_1}^{\mathcal{F}_s^{CDV}} &= \emptyset, \\
[\![\lambda x.y]\!]_{\rho_2}^{\mathcal{F}^{AO}} &= \ \uparrow (\top \rightarrow \top).
\end{aligned}
$$

where $\rho_1(y) = \emptyset$ and $\rho_2(y) = \uparrow \emptyset$.

35.   Prove Proposition 18.1.5.

36.   (i)   Let $\mathcal{T} \in TT$. By Corollary 18.2.10 we know that $\mathcal{F}_s^{\mathcal{T}}$ is a λI-model if
              it is β-sound. Show that it is not a λ-model by proving

$$
\mathcal{F}_s^{\mathcal{T}} \not\models (\lambda x.y)z = y.
$$

        (ii) Now let $\mathcal{T} \in TT^{\top}$ be β-sound. Show that

$$
\mathcal{F}^{\mathcal{T}} \models (\lambda x.y)z = y.
$$

        without using Theorem 18.2.8 and the corollaries following from it.