

$$\textcircled{2} \quad \frac{\rho_1 \vdash d_2 \rightarrow_d^* \rho_2}{\vdash \rho_1 \text{ in } d_2 \rightarrow_d \rho_1 \text{ in } \rho_2} \equiv \frac{[x \leftarrow 2] \vdash d_2 \rightarrow_d^* \rho_2}{\vdash [x \leftarrow 2] \text{ in } d_2 \rightarrow_d [x \leftarrow 2] \text{ in } \rho_2} \mathcal{D}_8$$

$$\textcircled{c} \quad [x \leftarrow 2] \vdash \rho_3 ; \rho_4 \rightarrow_d \rho_3 [\rho_4] \equiv [x \leftarrow 2] \vdash [y \leftarrow 3] ; [2 \leftarrow 5] \rightarrow_d \underbrace{[y \leftarrow 3, 2 \leftarrow 5]}_{\rho_2} \mathcal{D}_6$$

$$\textcircled{3} \quad \vdash \rho_1 \text{ in } \rho_2 \rightarrow_d \rho_2 \equiv [x \leftarrow 2] \text{ in } \underbrace{[y \leftarrow 3, 2 \leftarrow 5]}_{\rho_2} \rightarrow_d [y \leftarrow 3, 2 \leftarrow 5] \mathcal{D}_9$$