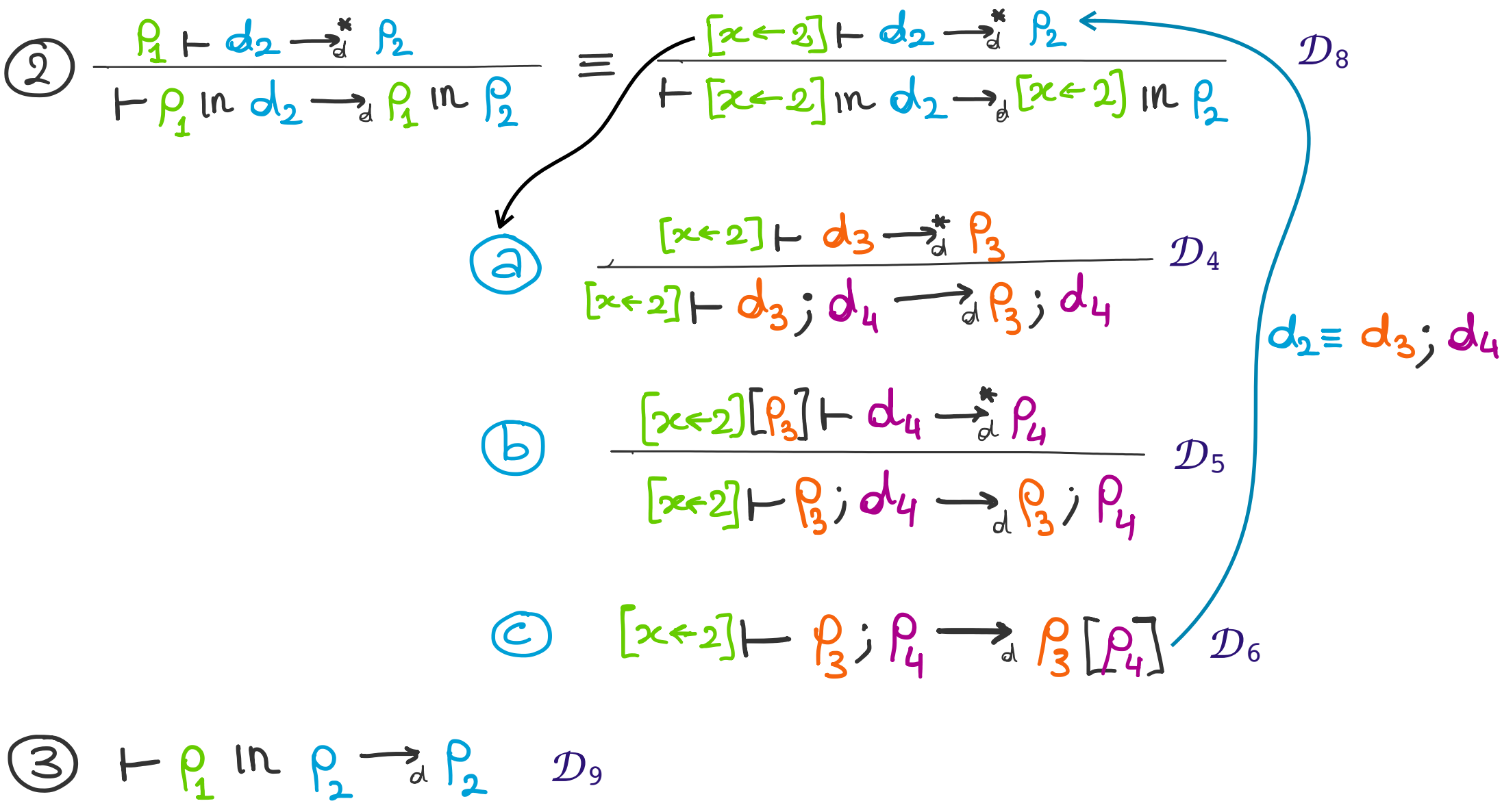
②
$\rho_1 \vdash d_2 \to_d^* \rho_2$
$\vdash \rho_1 \text{ in } d_2 \to_d \rho_1 \text{ in } \rho_2$
≡
$[x \leftarrow 2] \vdash d_2 \to_d^* \rho_2$
$\vdash [x \leftarrow 2] \text{ in } d_2 \to_d [x \leftarrow 2] \text{ in } \rho_2$
$\mathcal{D}_8$
$d_2 \equiv d_3 ; d_4$
ⓐ
$[x \leftarrow 2] \vdash d_3 \to_d^* \rho_3$
$[x \leftarrow 2] \vdash d_3 ; d_4 \to_d \rho_3 ; d_4$
$\mathcal{D}_4$
ⓑ
$[x \leftarrow 2][\rho_3] \vdash d_4 \to_d^* \rho_4$
$[x \leftarrow 2] \vdash \rho_3 ; d_4 \to_d \rho_3 ; \rho_4$
$\mathcal{D}_5$
ⓒ
$[x \leftarrow 2] \vdash \rho_3 ; \rho_4 \to_d \rho_3 [\rho_4]$
$\mathcal{D}_6$
③
$\vdash \rho_1 \text{ in } \rho_2 \to_d \rho_2$
$\mathcal{D}_9$