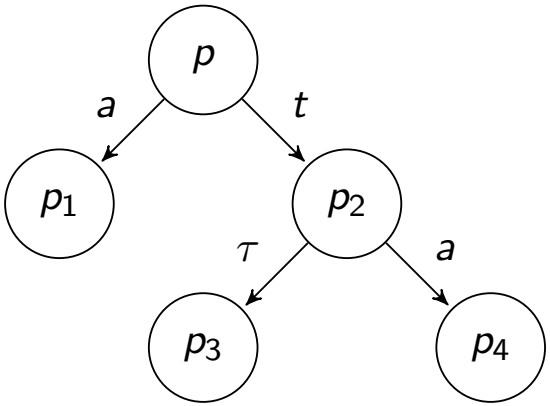
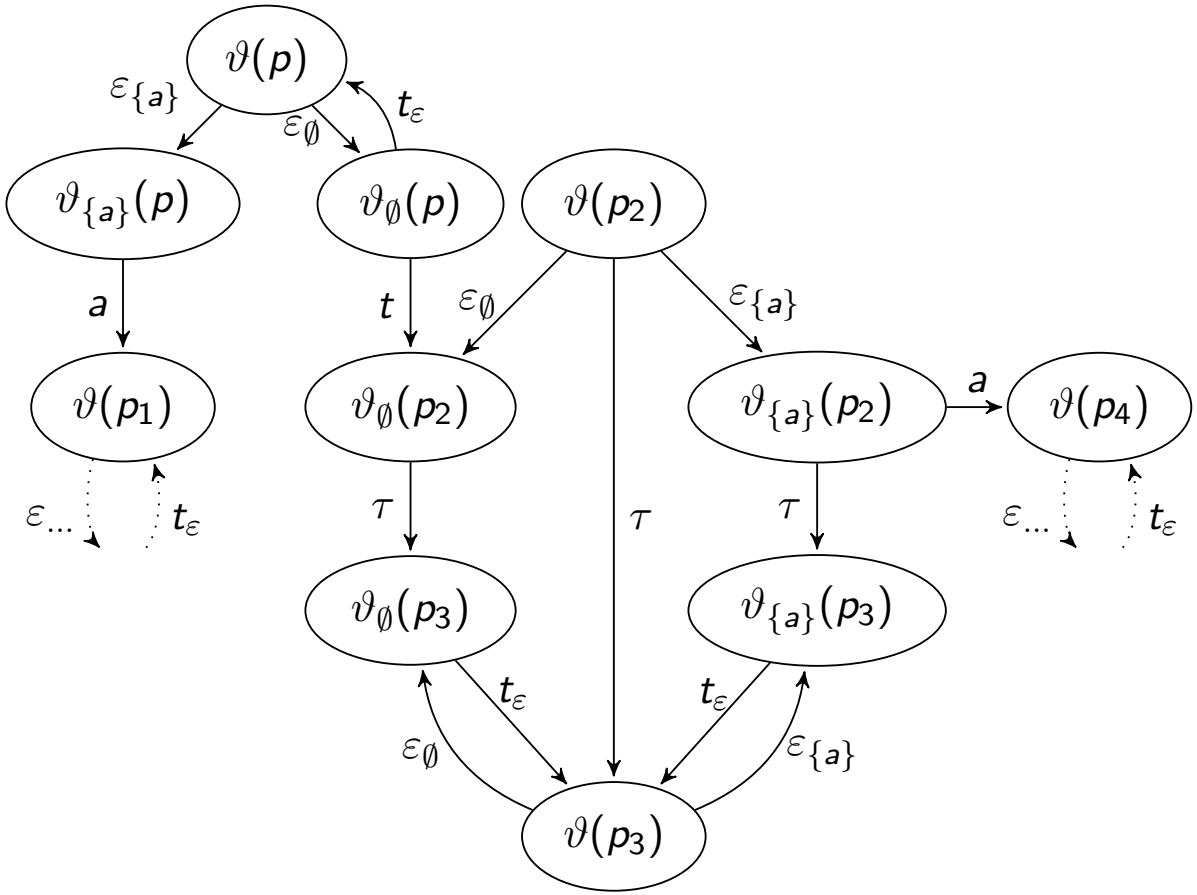
Reducing Reactive to Strong Bisimilarity





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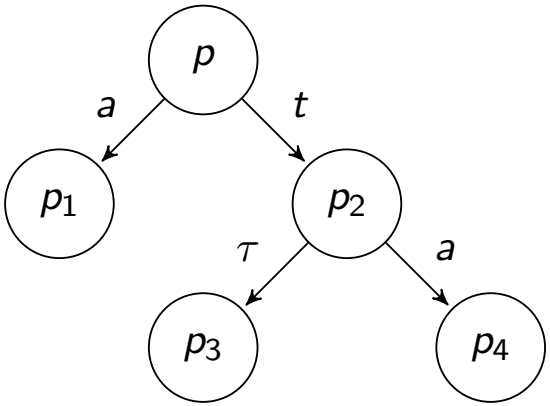

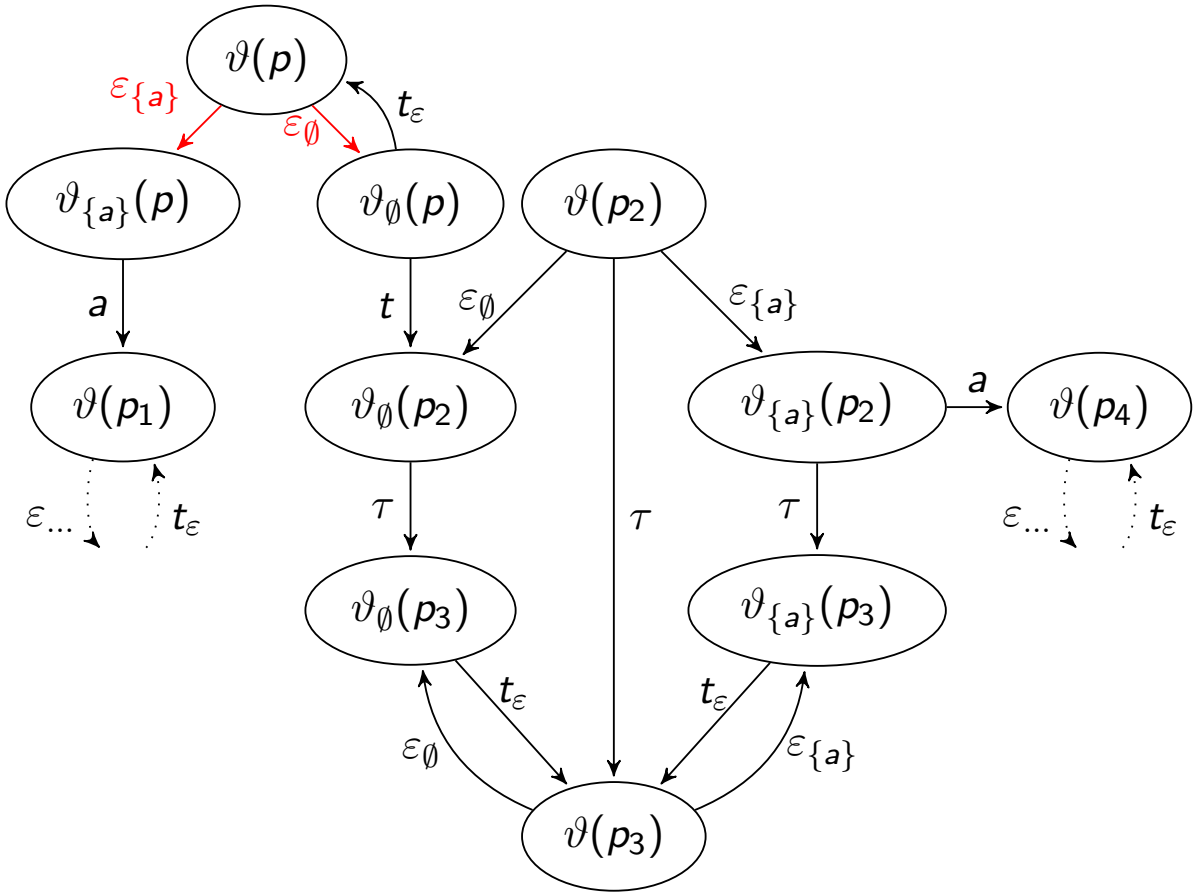

$$(1)\ \frac{}{\vartheta(p) \xrightarrow{\varepsilon_X}_{\vartheta} \vartheta_X(p)}\ X \subseteq A$$

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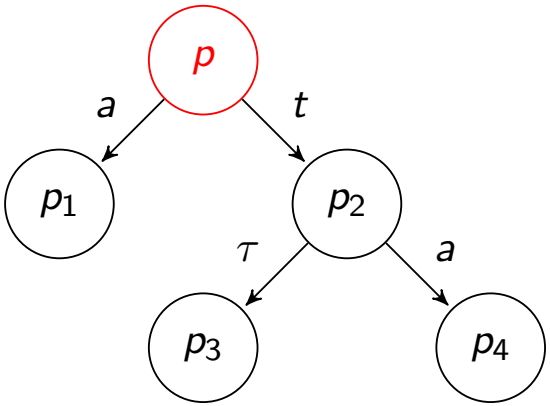

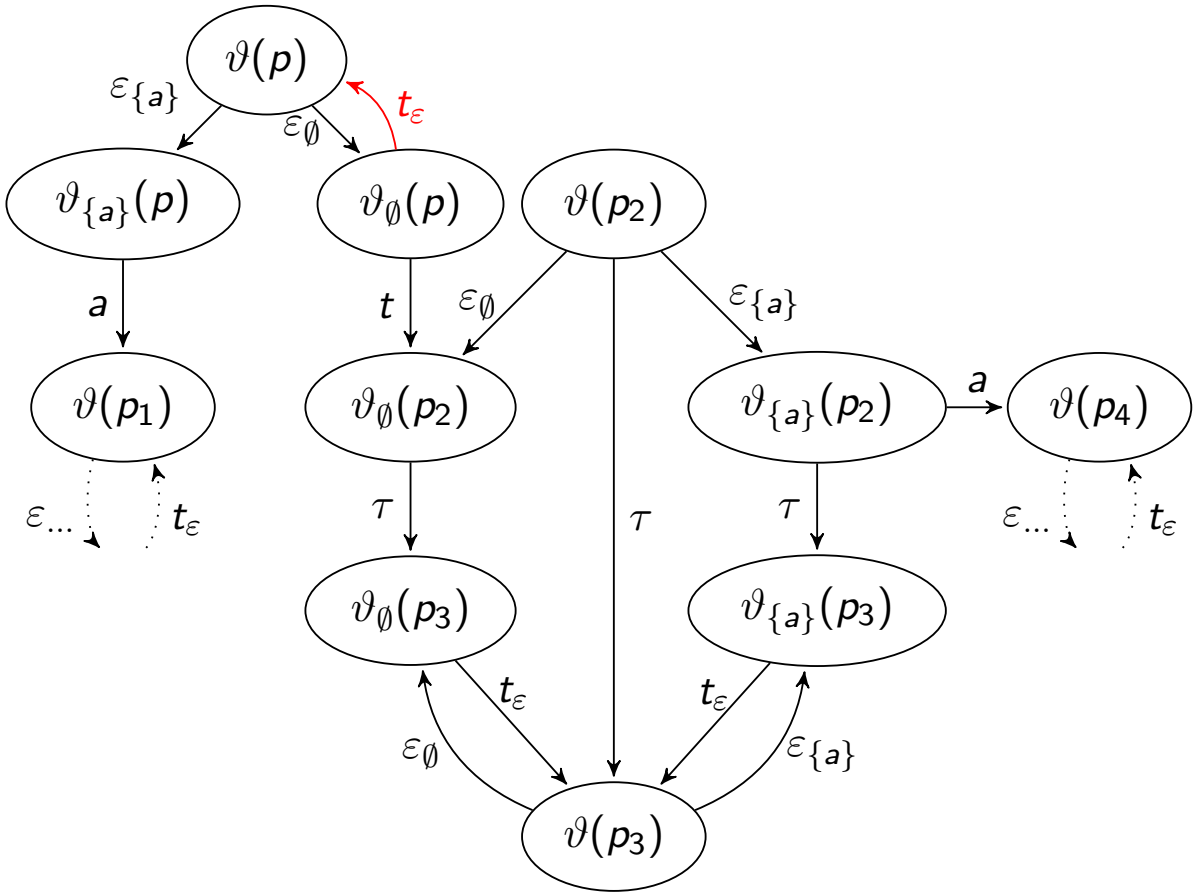

(3) $\dfrac{p \overset{\alpha}{\not\longrightarrow} \text{ for all } \alpha \in X \cup \{\tau\}}{\vartheta_X(p) \xrightarrow{t_\varepsilon}_\vartheta \vartheta(p)}$

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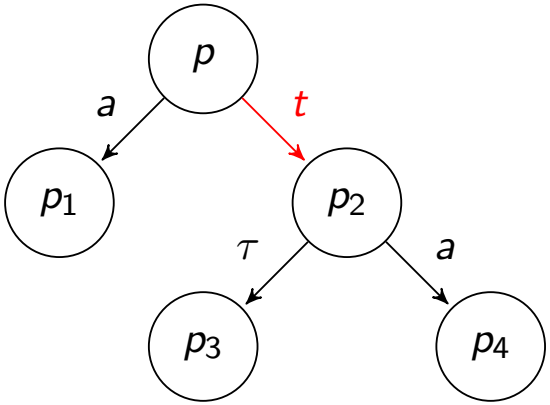
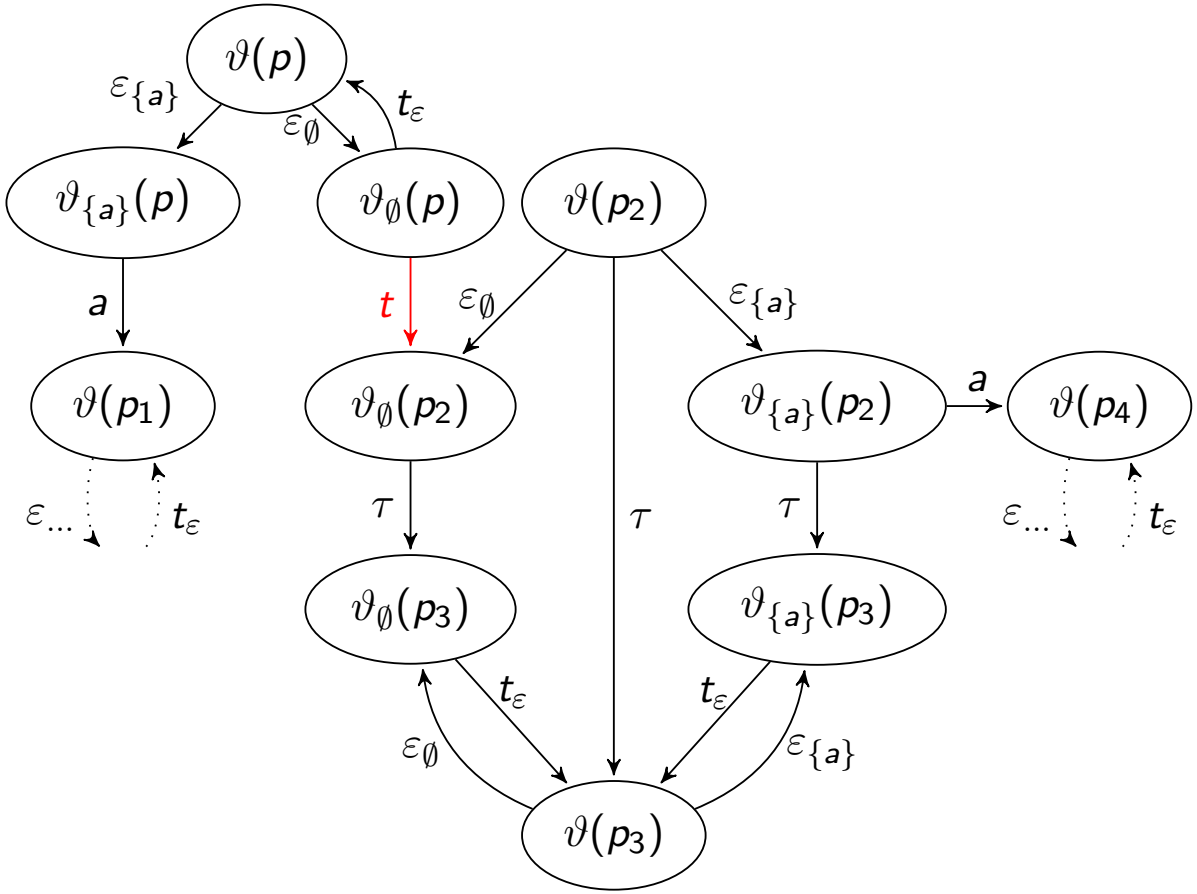
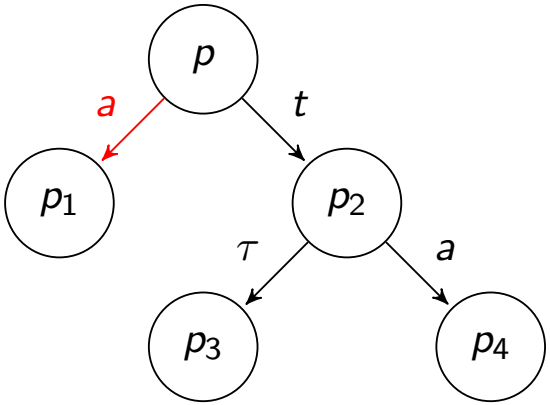
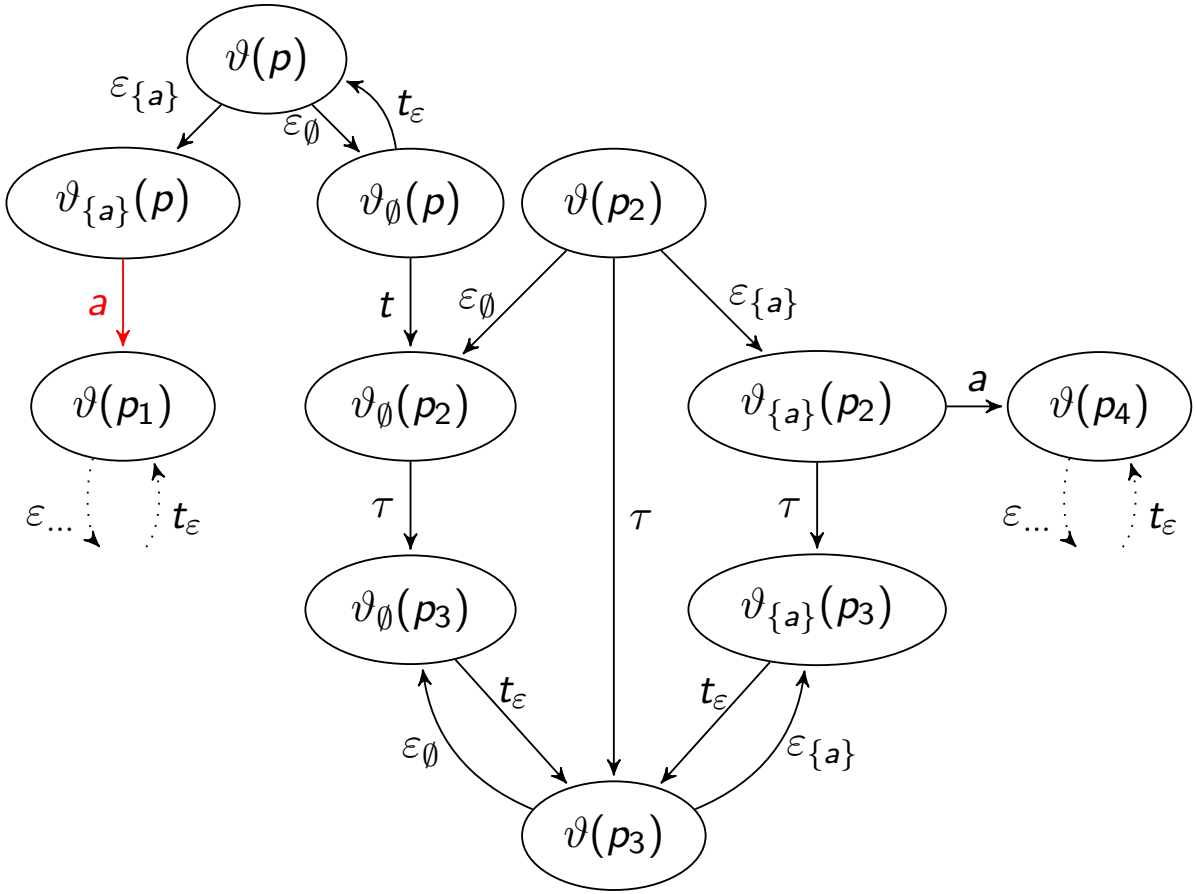




$$(6)\ \frac{p \overset{\alpha}{\not\longrightarrow} \text{ for all } \alpha \in X \cup \{\tau\} \qquad p \overset{t}{\longrightarrow} p'}{\vartheta_X(p) \overset{t}{\longrightarrow}_\vartheta \vartheta_X(p')}$$

Reducing Reactive to Strong Bisimilarity





$$(4)\ \frac{p \xrightarrow{a} p'}{\vartheta_X(p) \xrightarrow{a}_{\vartheta} \vartheta(p')}\ a \in X$$

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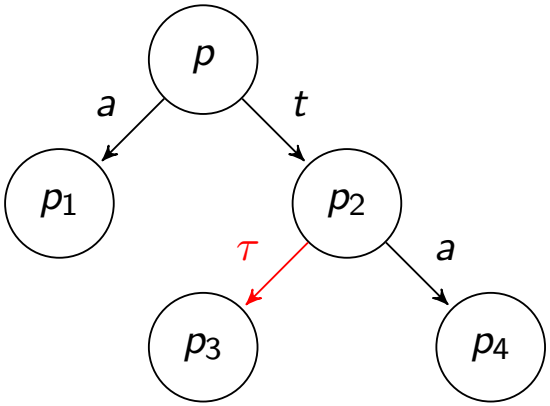

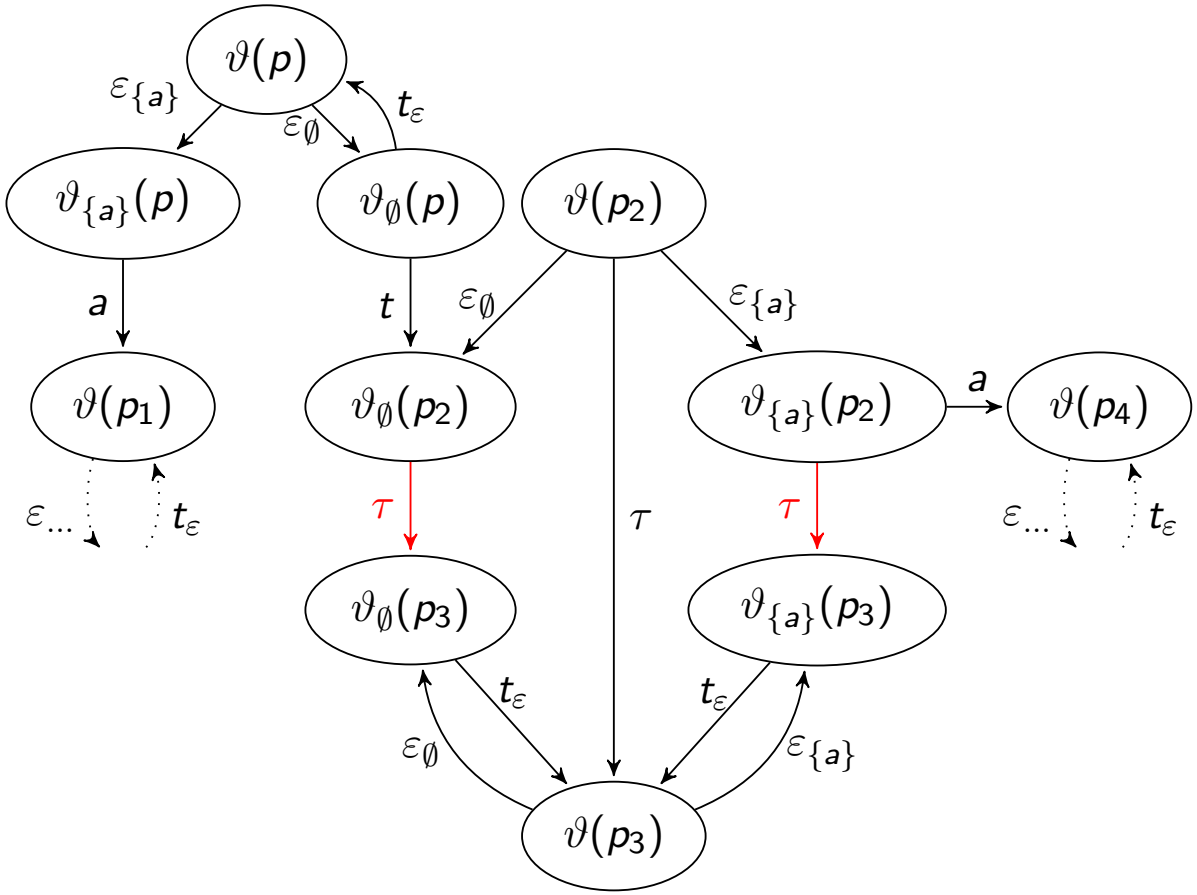

$$(5)\ \frac{p \xrightarrow{\tau} p'}{\vartheta_X(p) \xrightarrow{\tau}_{\vartheta} \vartheta_X(p')}$$

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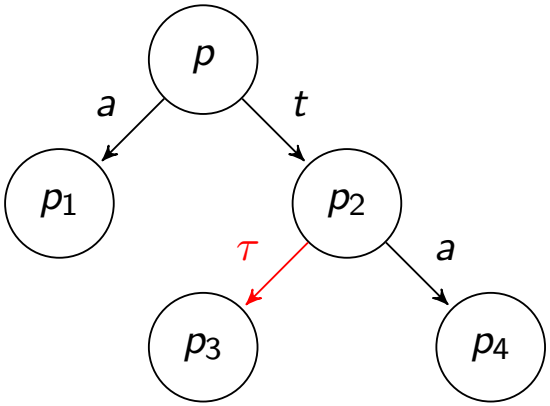

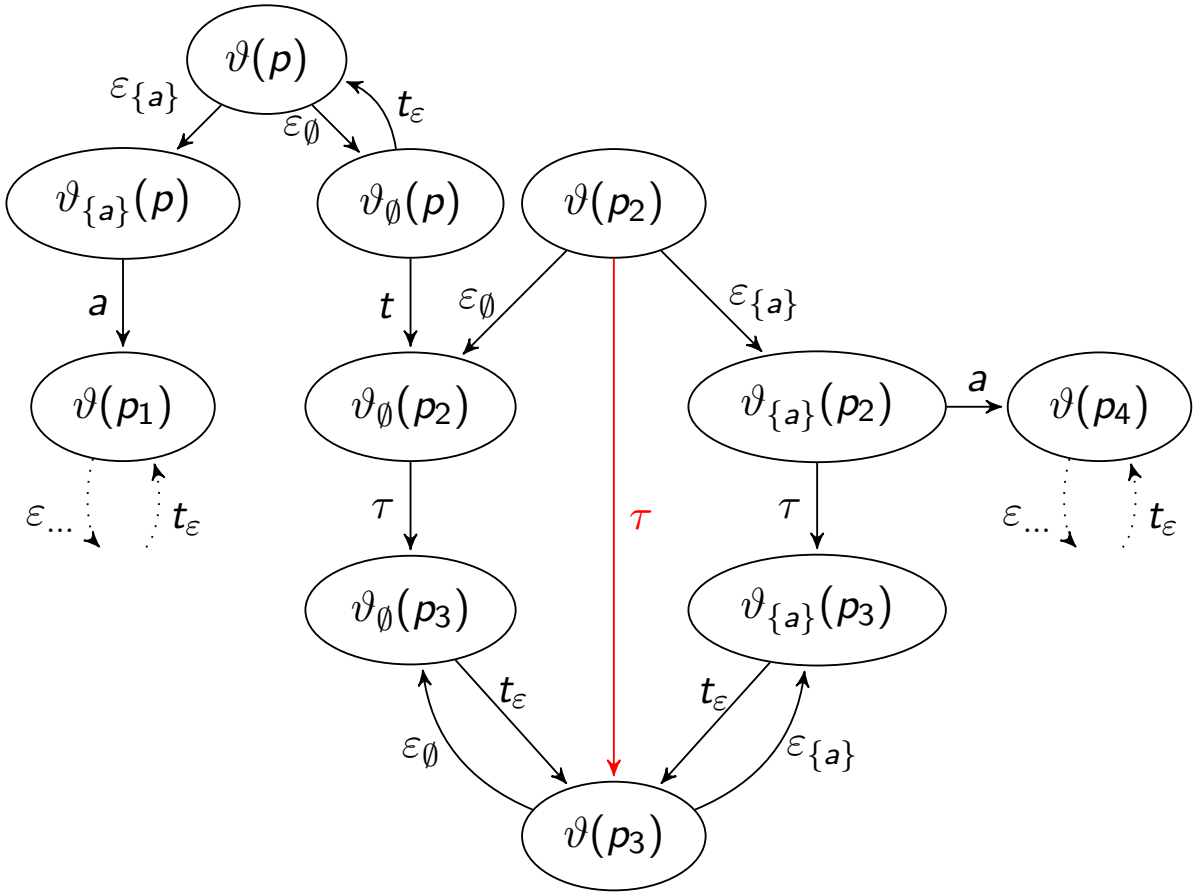

$$(2)\ \frac{p \xrightarrow{\tau} p'}{\vartheta(p) \xrightarrow{\tau}_{\vartheta} \vartheta(p')}$$