

Generate $\frac{\mathcal{E}, \mathcal{R}}{\mathcal{E} \cup \{s \equiv t\}, \mathcal{R}}$ if $\langle s, t \rangle \in CP(\mathcal{R})$

Orient $\frac{\mathcal{E} \cup \{s \equiv t\}, \mathcal{R}}{\mathcal{E}, \mathcal{R} \cup \{s \rightarrow t\}}$ if $s \succ t$ $\frac{\mathcal{E} \cup \{s \equiv t\}, \mathcal{R}}{\mathcal{E}, \mathcal{R} \cup \{t \rightarrow s\}}$ if $t \succ s$

Delete $\frac{\mathcal{E} \cup \{s \equiv s\}, \mathcal{R}}{\mathcal{E}, \mathcal{R}}$

Reduce Equation $\frac{\mathcal{E} \cup \{s \equiv t\}, \mathcal{R}}{\mathcal{E} \cup \{u \equiv t\}, \mathcal{R}}$ if $s \rightarrow_{\mathcal{R}} u$ $\frac{\mathcal{E} \cup \{s \equiv t\}, \mathcal{R}}{\mathcal{E} \cup \{s \equiv v\}, \mathcal{R}}$ if $t \rightarrow_{\mathcal{R}} v$

Reduce Right $\frac{\mathcal{E}, \mathcal{R} \cup \{s \rightarrow t\}}{\mathcal{E}, \mathcal{R} \cup \{s \rightarrow v\}}$ if $t \rightarrow_{\mathcal{R}} v$

Reduce Left $\frac{\mathcal{E}, \mathcal{R} \cup \{s \rightarrow t\}}{\mathcal{E} \cup \{u \equiv t\}, \mathcal{R}}$ if $s \rightarrow_{\mathcal{R}} u$ with rule $l \rightarrow r$ and l cannot be reduced with $s \rightarrow t$