

Unification

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$$+ \{x + s(y) \approx s(y) + s(z)\}$$

\Downarrow

$$\{x \approx s(y), s(y) \approx s(z)\}$$

$$\Downarrow \{x \rightarrow s(y)\}$$

$$\{s(y) \approx s(z)\}$$

\Downarrow

$$\{y \approx z\}$$

$$\Downarrow \{y \rightarrow z\}$$

\emptyset

$$+ \{x + s(y) \approx s(y) + s(x)\}$$

\Downarrow

$$\{x \approx s(y), s(y) \approx s(x)\}$$

$$\Downarrow \{x \rightarrow s(y)\}$$

$$\{s(y) \approx s(s(y))\}$$

\Downarrow

$$\{y \approx s(y)\}$$

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$$\{x \rightarrow s(y)\} \{y \rightarrow z\}$$

$$= \{x \rightarrow s(z), y \rightarrow z\}$$