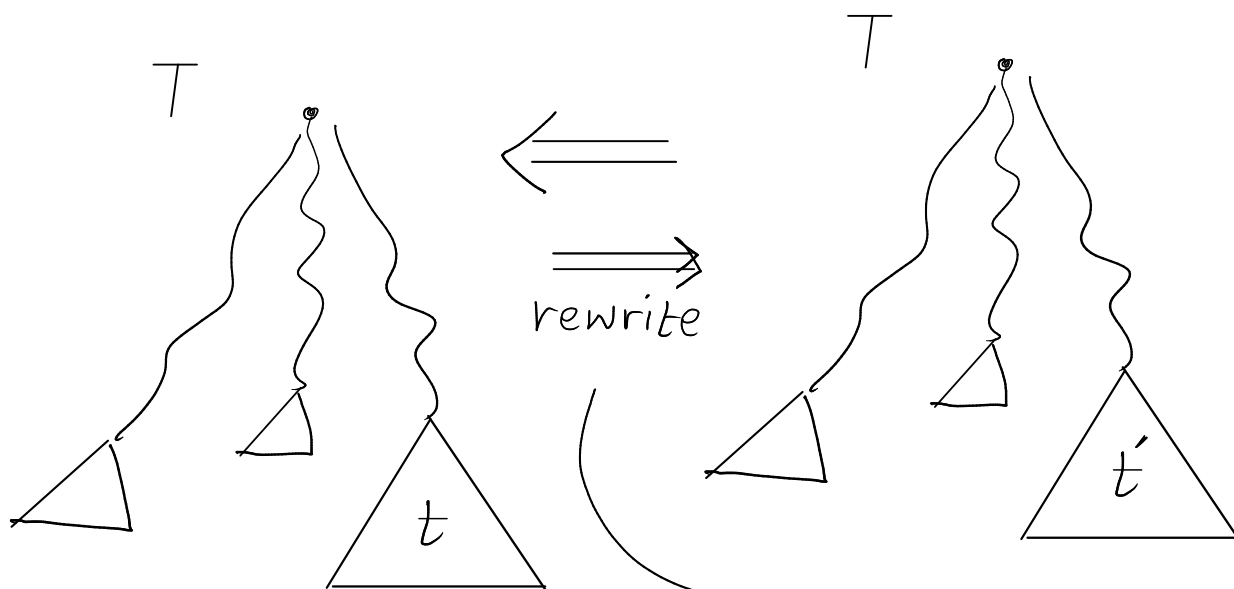


1. Similar signatures

4. Syntactic substitutions: syntactic replacement of variables by terms

The diagram shows two sets of concentric circles representing structures. The left set, labeled V , has an inner circle labeled Π_{Ω} . The right set, labeled M , has an inner circle labeled $\Pi_{\Omega}(v)$. A blue arrow points from the center of the V circles to the center of the M circles, labeled $v : V \rightarrow M$. Three black arrows originate from different points within the V circles and point to three distinct points within the M circles; these arrows are collectively labeled $\mu(v)$. An orange circle highlights one specific point in the M set, with an annotation stating "are not images of elements in the source". A legend at the bottom left indicates that green dots represent "Signatures".

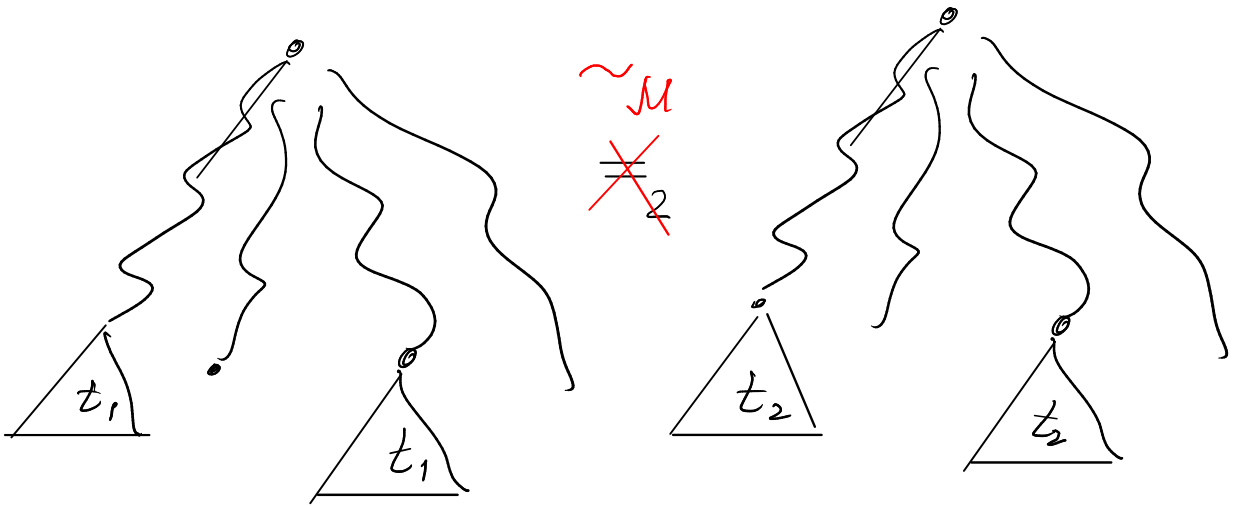
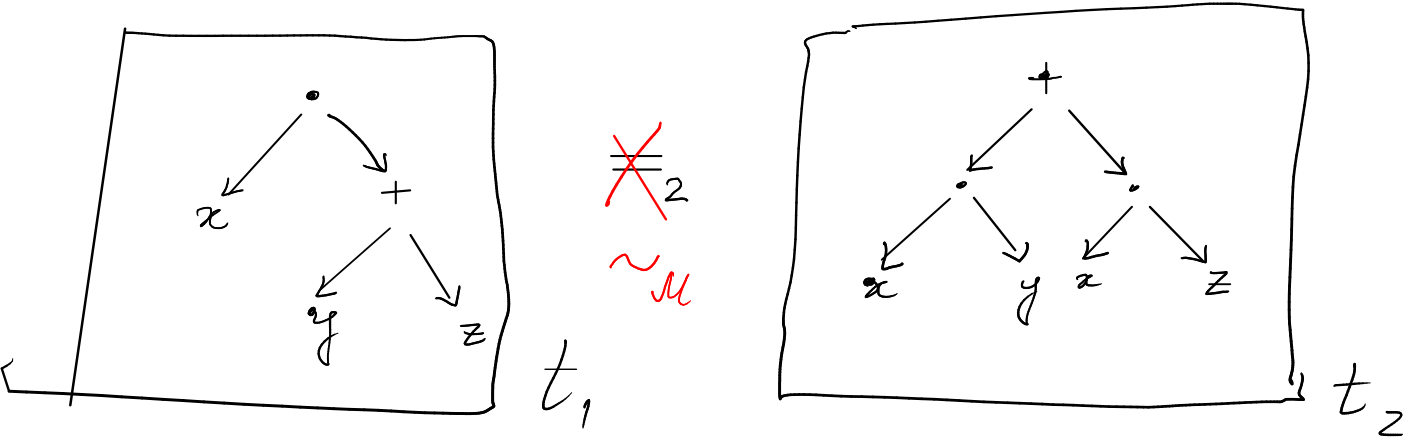
$$\mathcal{M}^{-1}: (V \rightarrow M) \rightarrow 2^{\Pi_{\Omega}(V)} \quad \begin{matrix} t \neq t' \\ t =_2 t' \end{matrix}$$



$t \neq t'$ but $t =_2 t'$

identity — algebraic identities

$\overline{(x \cdot (y + z))} = \overline{x \cdot y + x \cdot z}$



$\text{dequeue}(\text{enqueue}(q, x)) = \text{enqueue}(\text{dequeue}(q), x)$
 $\text{dequeue}(\text{enqueue}(\text{emptyq}, x)) = \text{emptyq}$