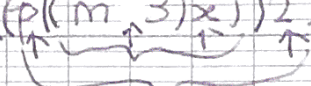
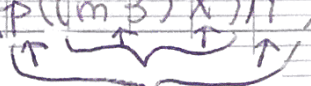


TD4: Unification

I Unification

Déterminer leur mgu entre les termes

$$1 \quad p(m \ 3 \ X) \ 2 \quad \quad \quad (= ((p((m \ 3) \ x)) \ 2)))$$


$$2 \quad p(m \ 3 \ X) \ Y \quad \quad \quad (= ((p((m \ 3) \ x)) \ Y))$$


Chercher unifiable 1 et 2:

$$(\{((p(m \ 3) \ x)) \ 2)\} \stackrel{?}{=} ((p(m \ 3) \ x) \ Y) \}, \emptyset \}$$

$$\text{Décomposer: } (\{((p(m \ 3) \ x)) \stackrel{?}{=} (p(m \ 3) \ x)), 2 \stackrel{?}{=} Y\}, \emptyset)$$

$$\text{Delete: } (\{2 \stackrel{?}{=} Y\}, \emptyset)$$

$$\text{Eliminate: } (\{ \}, \{ \exists y \leftarrow 2 \})$$

$$(\emptyset, \{y \leftarrow 2\})$$

1 et 3?

$$(\{((p(m \ 3) \ x)) \ 2)\} \stackrel{?}{=} (p \ x)((m \ 3) \ x), \emptyset \}, \emptyset)$$

$$\text{Décomposer: } (\{((p(m \ 3) \ x)) \stackrel{?}{=} (p \ x), 2 \stackrel{?}{=} ((m \ 3) \ x)\}, \emptyset)$$

$$\text{Décomposer: } (\{p \stackrel{?}{=} p, ((m \ 3) \ x) \stackrel{?}{=} x, 2 \stackrel{?}{=} ((m \ 3) \ x)\}, \emptyset)$$

$$\text{Delete: } (\{((m \ 3) \ x) \stackrel{?}{=} x, 2 \stackrel{?}{=} ((m \ 3) \ x)\}, \emptyset)$$

Check: Erreur