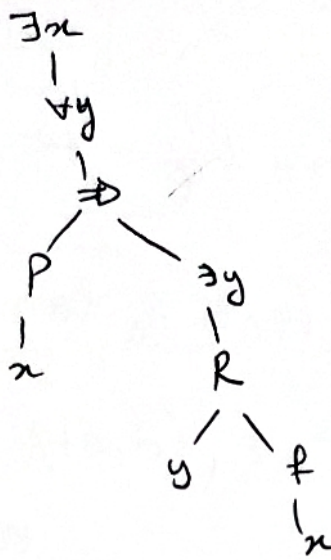


# Exercice 5

1.



pas de variables libres.

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2.  $P^{x1}, R^{x2}, Q^{x2}, a^{f0}, f^{f1}$ .

01

3. Prémisses:  
 $A_p = \exists x \exists y (P(x) \Rightarrow R(y, f(x)))$   
 $B_p = \forall y \exists x (R(x, y) \Rightarrow P(a))$   
 $C_p = \exists x \forall y \forall z (\neg R(x, y) \wedge Q(z, y) \vee P(z))$

Skolemisation:

$A_s = P(a) \Rightarrow R(b, f(a))$

$B_s = \forall y R(g(y), y) \Rightarrow P(a)$

$C_s = \forall y \forall z (\neg R(c, y) \wedge Q(z, y) \vee P(z))$

Forme Clause:

$C_1: \neg P(a) \vee R(b, f(a))$

$C_2: \neg R(g(y), y) \vee P(a)$

$C_3: \neg R(c, y) \vee P(z)$

$C_4: Q(z, y) \vee P(z)$

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