

Si  $P(f(y, a), y, f(x, g(b)))$  y  $P(x, g(b), f(z, y))$  son unificables, hallar el Unificador de Máxima Generalidad, justificando en cualquier caso cada paso del algoritmo UMG

| $\alpha$                                 | $A\alpha$  | $B\alpha$                                     | $t_A, t_B$      |
|--|--|---|-----------------|
| $\{\}$                                   | $P(\underline{f(y, a)}, y, f(x, g(b)))$                | $P(\underline{x}, g(b), f(z, y))$             | $f(y, a), x$    |
| $\{x/f(y, a)\}$                          | $P(f(y, a), \underline{y}, f(f(y, a), g(b)))$          | $P(f(y, a), \underline{g(b)}, f(z, y))$       | $y, g(b)$       |
| $\{x/f(g(b), a), y/g(b)\}$               | $P(f(g(b), a), g(b), f(\underline{f(g(b), a)}, g(b)))$ | $P(f(g(b), a), g(b), f(\underline{z}, g(b)))$ | $f(g(b), a), z$ |
| $\{x/f(g(b), a), y/g(b), z/f(g(b), a)\}$ | $P(f(g(b), a), g(b), f(f(g(b), a), g(b)))$             | $P(f(g(b), a), g(b), f(f(g(b), a), g(b)))$    |                 |

UMG =  $\{x/f(g(b), a), y/g(b), z/f(g(b), a)\}$



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