$$6(x) = a_2a_1$$

 $6(y) = b_2b_1$
 $6(xy) = b_2b_1a_2a_1$

(f) 6(w) = w No

X = a.az

y = b, bz

Contraexemple

x = ab

y = ba

$$6(x)6(y) = a_2a_1b_2b_1$$

 $6(x)6(y) = x^R y^R = baab$

6(xy) = abba = abba