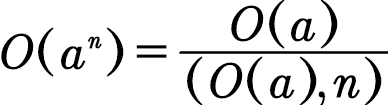
Let G be a group.

Show that



for all 

where n is an integer and

(O(a), n) = greatest common divisor of O(a) and n.