

**Definition 0.1.** A non-empty for every  $x_1, \dots, x_n, y_2, \dots, y_n \in G$  .

If for all  $(a_1, \dots, a_n) \in G^n$  , the set  $o(a_1, \dots, a_n)$  is singleton, then  $o$  is called n-ary operation Therefore  $o|_\theta$  is superassociative.  
Now, we consider the equation