[11-05-16-T23]

Assignment

Complete the following table to give a cyclic group Z_6 of 6 elements. (Do not prove that the group is associative.)

(a)

Z_6 :

+	0	1	2	3	4	5
0	0	1	2	3	4	5
1	1	2	3	4	5	0
2	2					
3	3					
4	4					
5	5					

(b) Compute the subgroups $\langle 1\rangle$, $\langle 2\rangle$, $\langle 3\rangle$, $\langle 4\rangle$, $\langle 5\rangle$ of the group Z_6 given in part (a).

(c) Which elements are gerators for the group Z_6 of part (a)?