**Pre Calc BC Group Orders Name:**

Complete the table. Then formulate conjectures for the questions below.

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|  | a) Find the order of each group. | b) List each element of the group with its specific order. | c) Identify all possible subgroups | d) Is this group *cyclic?* |
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1. How is the order of an element related to the order of its inverse?
2. If an element has an order of 2, what is its inverse?
3. How is the order of an element related to the order of the group?