The above graph is the Cayley graph of a group $G$ with respect to a certain generating set $S$. I have omitted some information, including the labeling on most vertices, which can be uniquely determined from what is given. Based on this Cayley graph, answer the following questions about $G$, with brief justification.

1. What is order of $G$?

2. What is the likely cardinality of the set $S$? (Note: there can be more than one correct answer for this, depending on your conventions).

2. What is the order of the element $a$ in $G$?

3. Is the group $G$ abelian?

4. Does the group $G$ contain a subgroup isomorphic to $\mathbb{Z}_6$?

5. Is $aba = b^{-1}$?

6. What is the distance between $a$ and $b^3$ in the word metric of $G$ with respect to $S$?

Bonus: Do you recognize this group?