

Abstract Algebra

1. If each element of a group be its own inverse then prove that the group is abelian.
2. If G be a group of order 91 then show that it cannot have two subgroups of order 13.
3. Give an example of a group of infinite order whose every elements of finite order.
4. Let (G, \circ) be a group and $a, b \in G$. Prove that $(a \circ b \circ a^{-1})^n = a \circ b^n \circ a^{-1}$ for all integers n .
5. If (G, \circ) be a finite group with identity e then prove that there exists a positive integer m such that $a^m = e$ holds for all $a \in G$.
6. In a group G , if a is the only element of order n for some $n \in \mathbb{N}$ then prove that $a \in Z(G)$.
7. If b be an element of order 20 in a group then find the order of elements b^6 and b^9 .
8. Let G be an abelian group. Prove that the set of all elements of finite order in G forms a subgroup of G .
9. If G be a cyclic group of prime order p then prove that every non-identity element of G is a generator of the group.
10. If G is a cyclic group of order 30 generated by a then find the order of the subgroup generated by a^{18} .
11. If a cyclic group G has only one generator then prove that either $\phi(G) = 1$ or $\phi(G) = 2$.
12. Give an example of a group (G, \circ) in which $\phi(a)$ and $\phi(b)$ are finite but $\phi(a \circ b)$ is infinite for some $a, b \in G$.
13. If (G, \circ) be a group in which $(a \circ b)^2 = a^2 \circ b^2$ and $(a \circ b)^5 = a^5 \circ b^5$ for all $a, b \in G$ then prove that the group is abelian.
14. Show that a finite cyclic group with three or more elements have even numbers of generators.
15. If order of a group G is pq where p, q are primes then show that every proper subgroups of G is cyclic.

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LP Steffe



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