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Problem 1. For (a), we have simply 151. For (b), the elements of order 7 are $(x^{105}=7)k = xk$ with $k = 1, \dots, 6$, so $x^{15}; x^{30}; \dots; x^{90}$. For (c), no they are not isomorphic: $(Z=16Z)$ has at least 3 elements of order 2, namely, the classes of 1; 7, and $Z=8Z$ as a cyclic group has only one, the class of 4.
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Problem A. Find $32C$ such that $Q(i; p^2) = Q(i; 3p^2)$.
 Solution to A. Either one can use the proof of the primitive element theorem, or, or one can just do this by hand. A little experimenting leads to the guess $= i^3 p^2$. This clearly lies in the field $Q(i; 3p^2)$.
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 Solution. The assertion is obvious if $n = 0$ so we will assume that $(ab)^n = a^n b^n$ for some $n \geq 0$, and demonstrate the veracity of the statement $(ab)^{n+1} = a^{n+1} b^{n+1}$.
 Now $(ab)^{n+1} = (ab)^n (ab) = a^n b^n ab$ by the induction hypothesis, and because G is Abelian, $a^n b^n ab = a^n a b^n b = a^{n+1} b^{n+1}$. Thus by induction, $(ab)^n = a^n b^n$ for all $n \geq 0$, $a, b \in G$, G an Abelian group.
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 Solution a) As a set $S_3 = \{1; (12); (23); (13); (123); (132)\}$; by the Lagrange theorem the subgroups of S_3 should have orders of $1; 2; 3; 6$. But the order of any cycle is equal with its length (for example, the order of (12) is 2). The only subgroup of S_3 with order 1 is $\{1\}$; the subgroups of S_3 .
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Suppose $M: 1 \neq u^1 + u^2 x^7 \neq u^3 + u^4 x^4$
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nonabelian group with 6 elements. Show that G is isomorphic to S_3 . Answer: By Cauchy's Theorem, G contains an element with order 2

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